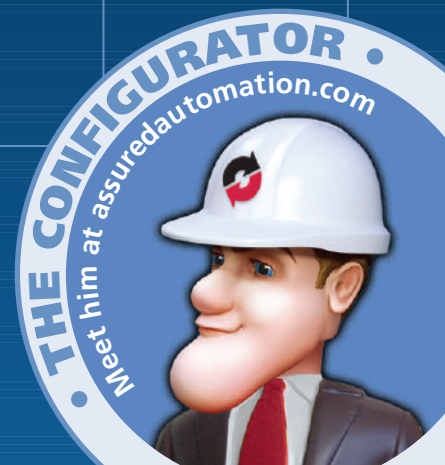


ASSURED AUTOMATION

Automated & Manual Valves and Flow Meters



It's Time to Automate!



VA Series "Valve + Actuator"

Compact, High Cycle-Life On/Off Control Valve



The VA Series combines a pneumatic actuator and valve into one body, eliminating packing glands, actuators and mounting kits. There are no exposed moving parts, eliminating pinch points and increasing operator safety. Since the actuator is part of the valve, costs are greatly reduced when compared to standard actuated valves.

Operating life has been tested to well over 1,000,000 cycles, the balanced design reduces friction and wear. The stroke is linear and parallel to the flow reducing the force to close or open the valve dramatically. The internal waterway design was designed for optimum flow characteristics.

FEATURES

- Integrated pneumatic actuator.
- NAMUR solenoid mounting pad.
- Compact assembly.
- Fast valve actuation.
- High CV (flow coefficient).
- High cycle-life.
- Competitive price.
- Complete accessory equipment.

TYPICAL APPLICATIONS

- Air drying equipment.
- Pollution control equipment.
- Process control applications.
- Laundry equipment.
- Textile dyeing and drying.
- Bottling and dispensing equipment.
- Ink and paint dispensing.
- Industrial compressors.

MATERIALS OF CONSTRUCTION

Seats and Seals:

Viton® (standard), BUNA-N, or EPDM.

Body:

Nickel plated brass.

VA SERIES MODEL NUMBERING

Model Number: X VA X X X X

Size (NPT):

- 037** = 3/8"
- 050** = 1/2"
- 075** = 3/4"
- 100** = 1"
- 125** = 1-1/4"
- 150** = 1-1/2"
- 200** = 2"

Actuator Style:

- C** = Closed
- O** = Open
- D** = Double Acting

Seat and Seal:

- VV** = Viton®
- BB** = BUNA
- EE** = EPDM

Optional:

Solenoid (see website)

Limit Switch:

- GO** = Open
- GC** = Close
- G2** = Open and Close

PRESSURE RANGE

29 inHg vacuum to 150 PSI

TEMPERATURE RANGE

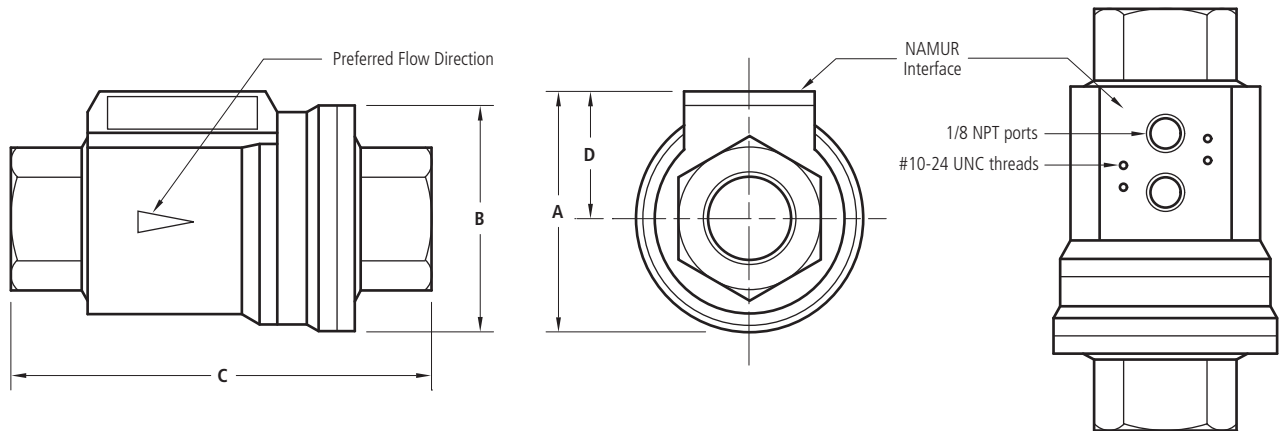
-4°F to 176°F (BUNA-N)
 -4°F to 302°F (EPDM, Viton®)

CV FACTORS

Size	CV
3/8"	8
1/2"	10
3/4"	13
1"	17
1-1/4"	28
1-1/2"	57
2"	81

VA Series

Compact, High Cycle-Life On/Off Control Valve
(3/8" to 2" sizes available)



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	C	D	Wt. (lbs.)	Air Consumption	Stroke Time (sec.)			
							Spring Return		Double Acting	
							Spring Stroke	Air Stroke	Air to Open	Air to Close
3/8"	2.11 (54 mm)	1.79 (46 mm)	3.82 (98 mm)	1.21 (31 mm)	1.90	0.73 cu. inches	.02	.01	.01	.01
1/2"	2.34 (60 mm)	2.02 (51.7 mm)	4.37 (112 mm)	1.33 (34 mm)	2.30	1.05 cu. inches	.02	.01	.01	.01
3/4"	2.73 (70 mm)	2.48 (63.5 mm)	5.27 (135 mm)	1.52 (39 mm)	3.70	1.90 cu. inches	.03	.02	.02	.02
1"	2.96 (76 mm)	2.69 (69 mm)	5.58 (143 mm)	1.64 (42 mm)	4.15	2.45 cu. inches	.04	.02	.02	.02
1-1/4"	3.59 (92 mm)	3.35 (86 mm)	6.44 (165 mm)	1.91 (49 mm)	7.50	4.58 cu. inches	.07	.04	.03	.03
1-1/2"	3.98 (102 mm)	3.74 (96 mm)	7.02 (180 mm)	2.11 (54 mm)	8.15	6.70 cu. inches	.11	.06	.06	.06
2"	4.49 (115 mm)	4.25 (109 mm)	8.07 (207 mm)	2.34 (60 mm)	12.75	9.50 cu. inches	.13	.07	.07	.07

VALVE CONFIGURATIONS

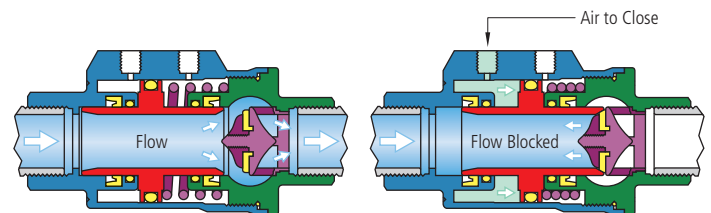
- Spring return, NC (normally closed).
- Spring return, NO (normally open).
- Double acting.

ADDITIONAL SPECIFICATIONS

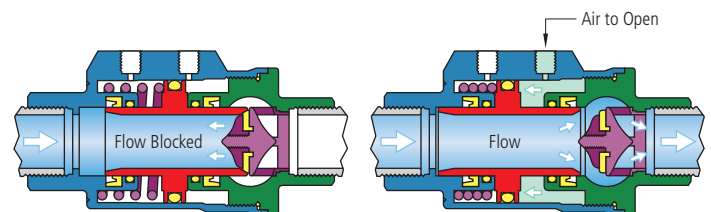
Vacuum Rating:
29 in. (740 mm) Hg (97% vacuum).

Air Pressure Requirement:
40 PSI for double acting, 60 to 125 PSI for spring return.

CROSS SECTIONS, NORMALLY OPEN



CROSS SECTIONS, NORMALLY CLOSED



VA Series Limit Switch

Magnetically Driven Limit Switch with LED Indicator

(Installed during valve assembly)



The VA Series valve can be provided with magnetically driven limit switches and an LED indicator. The limit switches are fixed to the outside of the unit. The magnets are situated inside the valve and must be installed during valve assembly, for this reason the switches must be requested at the time of order.

SPECIFICATIONS

Switching Indicator:
LED.

Protection Level:
IP 67.

Nominal Voltage:
3 - 250 VDC (direct current),
3 - 250 VAC (alternating current).

Voltage Drop:
2.5 V.

Maximum Current at 77° F (resistive load):
1 A.

Protection Against Inductive Tension Peaks:
250 VR.

Maximum Applicable Load:
10 W (with suppressor), 10 W (simple).

Life:
10 x 10⁶.

Repeatability:
0.004".

Operating Time (resistive load):
2 ms.

Release Time (resistive load):
0.1 ms.

Impact Resistance (11 ms):
50 g.

Vibration Resistance:
1000 Hz.

Sensor Type:
1.

Connecting Cable:
10' cable.

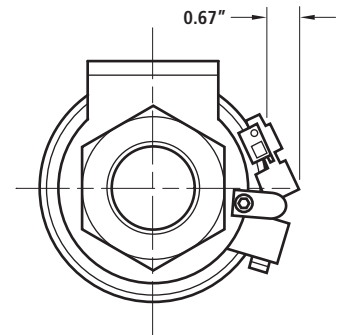
MAXIMUM POWER

50 W (direct current),
50 VA (alternating current).

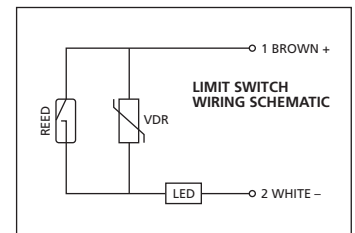
TEMPERATURE RANGE

-22°F to 176°F

DIMENSION



WIRING DIAGRAM



VAX Series

High Pressure 2-way/3-way Coaxial Valve



High pressure coaxial valves are the best choice in process and fluid control and combine performance, economy and availability.

FEATURES

- Bi-directional compact design and NPT end connections.
- Fast actuation, high cycle life and maintenance free.
- Limit switches and solenoids available (pneumatic only).

TYPICAL APPLICATIONS

- Vacuum and gaseous applications.
- Liquid, gelatinous and highly viscous media.
- High cycle applications.

MATERIALS OF CONSTRUCTION

Seats:

PTFE.

Seals:

FPM.

Control tube:

Stainless steel.

End Caps:

Brass or stainless steel.

Center Body Piston (non wetted):

Aluminum (pneumatic) or nickel plated steel (electric).

Bolts:

Steel.

TEMPERATURE RANGE

-4°F to 140°F

VAX SERIES MODEL NUMBERING

Model Number: X **VAX** X X X X

Size (NPT): _____

B = 3/8"

C = 1/2"

D = 3/4"

E = 1"

Material: _____

B = Brass

S = Stainless Steel

Configuration: _____

2 = 2-way

3 = 3-way (Brass Only)

Actuator Style: _____

P = Pneumatic

E = Electric

Fail Position: _____

O = Fail Open (2-way),
Fail Port A To B (3-way)

C = Fail Closed (2-way),
Fail Port A To C (3-way)

Voltage (Electric Only): _____

A = 110 VAC

B = 24 VDC

MAXIMUM PRESSURE

ΔP 600 PSI: Pneumatic, A to B,
A to C or B to A

ΔP 600 PSI: Electric, A to B
or A to C

ΔP 180 PSI: Electric, B to A

VALVE CONFIGURATIONS

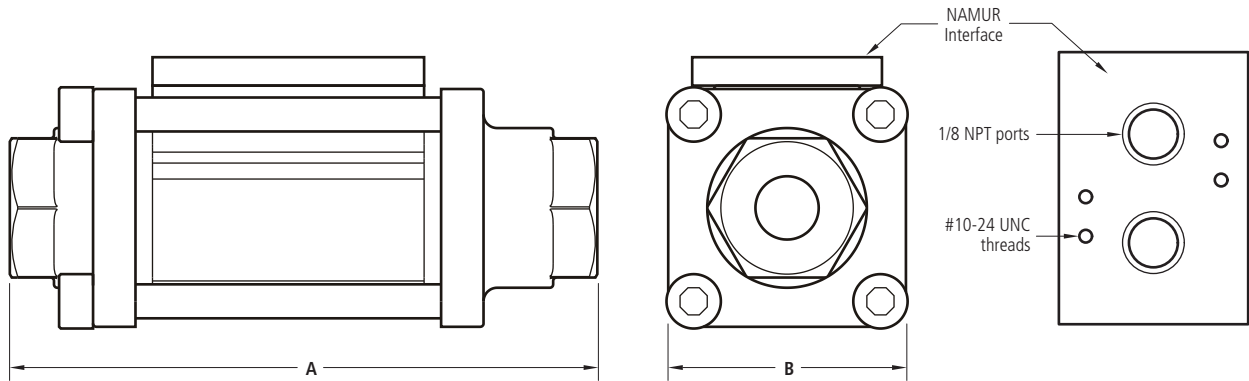
2-Way	3-Way

CV FACTORS

Size	CV	
	A to B	A to C
Pneumatic		
3/8"	2.5	2.2
1/2"	6.1	4.5
3/4"	10.8	7.7
1"	15.0	12.7
Electric		
3/8"	2.5	1.8
1/2"	6.0	4.1
3/4"	8.6	6.4
1"	14.0	11.7

VAX Series

High pressure 2-way coaxial valve
 (Pneumatic, spring return)



DIMENSIONS, WEIGHTS & SPECIFICATIONS

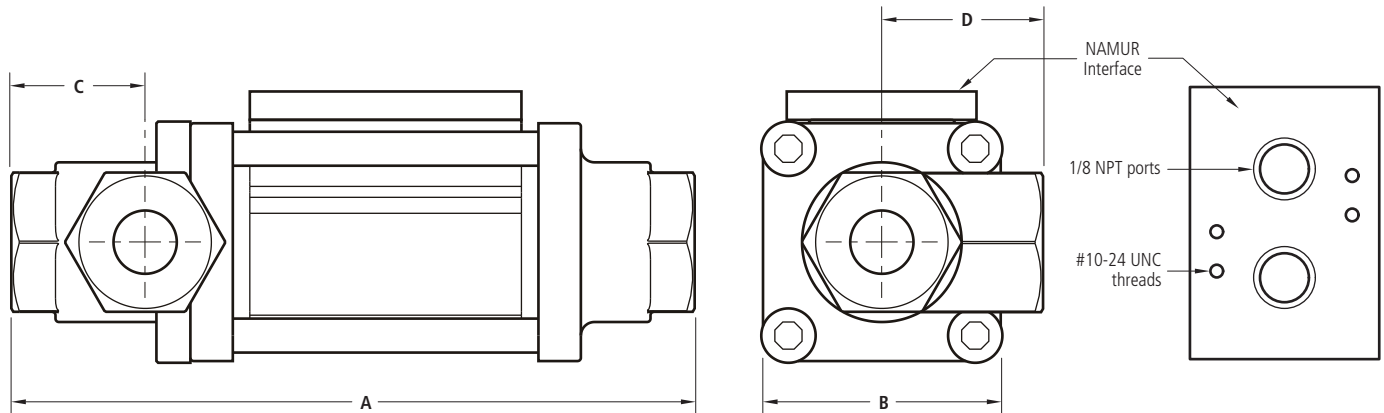
Size	A	B	Actuating Pressure (PSI)	Actuation Time (60 PSI line pressure)		Wt. (lbs.)	Model No.	
				Opening	Closing		Fail Open	Fail Closed
3/8"	5.71	1.97	60-120	30 ms	50 ms	2.87	BVAXS2PO	BVAXS2PC
1/2"	6.81	2.76	60-120	35 ms	60 ms	5.51	CVAXS2PO	CVAXS2PC
3/4"	7.60	3.15	60-120	40 ms	60 ms	8.38	DVAXS2PO	DVAXS2PC
1"	8.35	3.54	60-120	50 ms	70 ms	11.24	EVAXS2PO	EVAXS2PC

VAX VALVE FEATURES

- Bi-directional compact design and NPT end connections.
- Fast actuation, high cycle life and maintenance free.
- NAMUR solenoid mounting pad.
- Limit switches and solenoids available.

VAX Series

High pressure 3-way coaxial valve
 (Pneumatic, spring return)



DIMENSIONS, WEIGHTS & SPECIFICATIONS

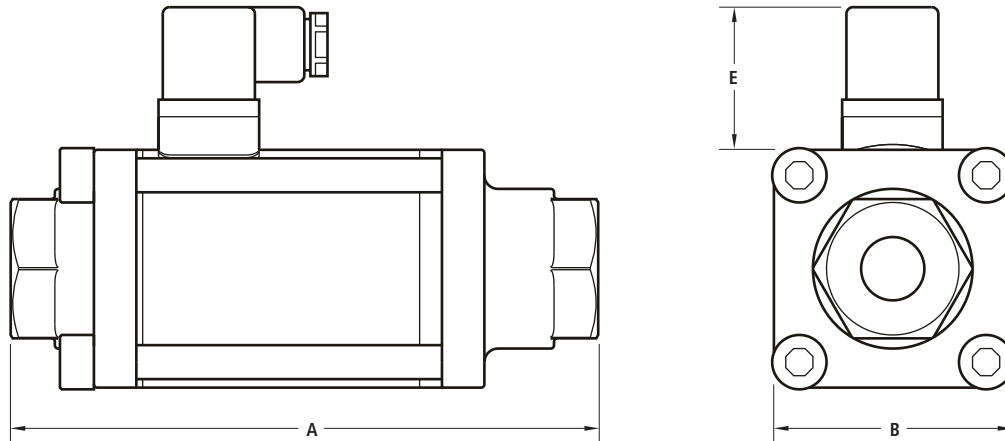
Size	A	B	C	D	Actuating Pressure (PSI)	Actuation Time (60 PSI line pressure)		Wt. (lbs.)	Model No.	
						Opening	Closing		Fail Open	Fail Closed
3/8"	6.54	1.97	1.26	1.46	60-120	30 ms	50 ms	3.31	BVAXB3PO	BVAXB3PC
1/2"	7.87	2.76	1.52	2.36	60-120	35 ms	60 ms	6.61	CVAXB3PO	CVAXB3PC
3/4"	9.02	3.15	1.79	2.83	60-120	40 ms	60 ms	9.70	DVAXB3PO	DVAXB3PC
1"	9.80	3.54	1.89	3.15	60-120	50 ms	70 ms	13.45	EVAXB3PO	EVAXB3PC

VAX VALVE FEATURES

- Bi-directional compact design and NPT end connections.
- Fast actuation, high cycle life and maintenance free.
- NAMUR solenoid mounting pad.
- Limit switches and solenoids available.

VAX Series

High pressure 2-way coaxial valve
 (Electric, direct acting, spring return)



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	E		Current Consumption		Operating Time		Wt. (lbs.)	Model No.	
			AC	DC	AC	DC	Opening	Closing		Fail A to B	Fail B to A
3/8"	5.71	1.97	1.83	1.58	0.36 A	1.45 A	45 ms	70 ms	3.75	BVAXS2EO⊙	BVAXS2EC⊙
1/2"	6.81	2.76	1.83	1.58	0.41 A	2.1 A	60 ms	130 ms	8.16	CVAXS2EO⊙	CVAXS2EC⊙
3/4"	7.60	3.15	1.83	1.58	0.56 A	2.2 A	105 ms	150 ms	11.90	DVAXS2EO⊙	DVAXS2EC⊙
1"	8.35	3.54	1.83	1.58	0.62 A	2.5 A	150 ms	190 ms	15.65	EVAXS2EO⊙	EVAXS2EC⊙

⊙ Voltage: **A** = 110 VAC; **B** = 24 VDC.

VAX VALVE FEATURES

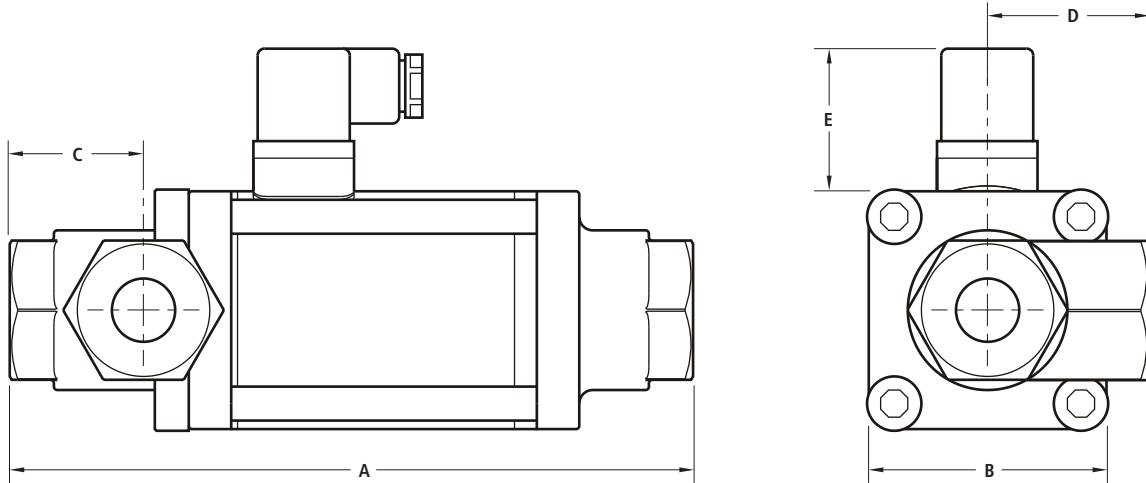
- Bi-directional compact design and NPT end connections.
- Fast actuation, high cycle life and maintenance free.
- IP 65 rating.

ELECTRIC ACTUATOR FEATURES

- Electrical DIN cord grip connection: PG9, plug acc. DIN EN 175301-803 form A, LED.
- Insulation class H.
- IP 65 enclosure protection.
- Energized duty rating: ED 100%.

VAX Series

High pressure 3-way coaxial valve
 (Electric, direct acting, spring return)



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	C	D	E		Current Consumption		Operating Time		Wt. (lbs.)	Model No.	
					AC	DC	AC	DC	Opening	Closing		Fail A to B	Fail B to A
3/8"	6.54	1.97	1.26	1.46	1.83	1.58	0.36 A	1.45 A	45 ms	70 ms	4.41	BVAXB3EO⊙	BVAXB3EC⊙
1/2"	7.87	2.76	1.52	2.36	1.83	1.58	0.41 A	2.1 A	60 ms	130 ms	9.04	CVAXB3EO⊙	CVAXB3EC⊙
3/4"	9.02	3.15	1.79	2.83	1.83	1.58	0.56 A	2.2 A	105 ms	150 ms	13.23	DVAXB3EO⊙	DVAXB3EC⊙
1"	9.80	3.54	1.89	3.15	1.83	1.58	0.62 A	2.5 A	150 ms	190 ms	17.86	EVAXB3EO⊙	EVAXB3EC⊙

⊙ Voltage: **A** = 110 VAC; **B** = 24 VDC.

VAX VALVE FEATURES

- Bi-directional compact design and NPT end connections.
- Fast actuation, high cycle life and maintenance free.
- IP 65 rating.

ELECTRIC ACTUATOR FEATURES

- Electrical DIN cord grip connection: PG9, plug acc. DIN EN 175301-803 form A, LED.
- Insulation class H.
- IP 65 enclosure protection.
- Energized duty rating: ED 100%.

Angle Seat Valve

High Cycle-Life On/Off Control Valve



The Angle Seat Valve is a 2/2-way pneumatically actuated piston valve for liquids, gases, vacuum, steam and some aggressive fluids. The superior design of the piston is unique to the market, enabling the plug to retract farther from the flow path, ensuring the highest flow capacity. The dual packing design, and a large diameter self-aligning stem insures the highest cycle life.

A full range of accessory items are available including limit switches, solenoid valves, manual override devices, stroke limiters.

FEATURES

- High cycle-life.
- NAMUR solenoid mounting pad.
- Compact assembly.
- Complete line of accessories.
- Actuator rotates 360°.
- Visual indicator.

TYPICAL APPLICATIONS

- Steam applications.
- Air drying equipment, sterilizers and autoclaves.
- Pollution control equipment, and process control applications.
- Laundry equipment, textile dyeing and drying.
- Bottling and dispensing equipment.
- Ink and paint dispensing.
- Industrial compressors.

VALVE CONFIGURATIONS

- Spring return, NC (normally closed), bi-directional.
- Spring return, NC (normally closed), flow from above.
- Spring return, NO (normally open), flow from below.
- Double acting, bi-directional.
- Manual handle, bi-directional.

MATERIALS OF CONSTRUCTION

Seats and Seals:
PTFE.

Body, Plug and Stem:
Bronze or 316 stainless steel.

ANGLE SEAT VALVE MODEL NUMBERING

(See pgs. 3 & 5 for Quick Sizing Chart)

Model Number: **J X X P G X X X X**

Body: _____
4 = 316SS
9 = Bronze

Actuator Style: _____
C = Fail Closed, 1 Spring
S = Fail Closed, 2 Springs
A = Fail Open
D = Double Acting

Actuator Size: _____
14 = DN40
16 = DN50
18 = DN63
21 = DN90
23 = DN110

End Connections: _____
43 = 3/8"
44 = 1/2"
45 = 3/4"
46 = 1"
47 = 1-1/4"
48 = 1-1/2"
49 = 2"
U4 = 1/2" Tri-clamp
U5 = 3/4" Tri-clamp
U6 = 1" Tri-clamp
U8 = 1-1/2" Tri-clamp
U9 = 2" Tri-clamp

Optional:

Solenoid (see website) _____

Limit Switch: _____

M2 = Mechanical,
Open and Close
I2 = A-Link (see page 6)

PRESSURE RANGE

29 inHg vacuum to 230 PSI
(steam to 150 PSI)

TEMPERATURE RANGE

-14°F to 358°F

Angle Seat Valve

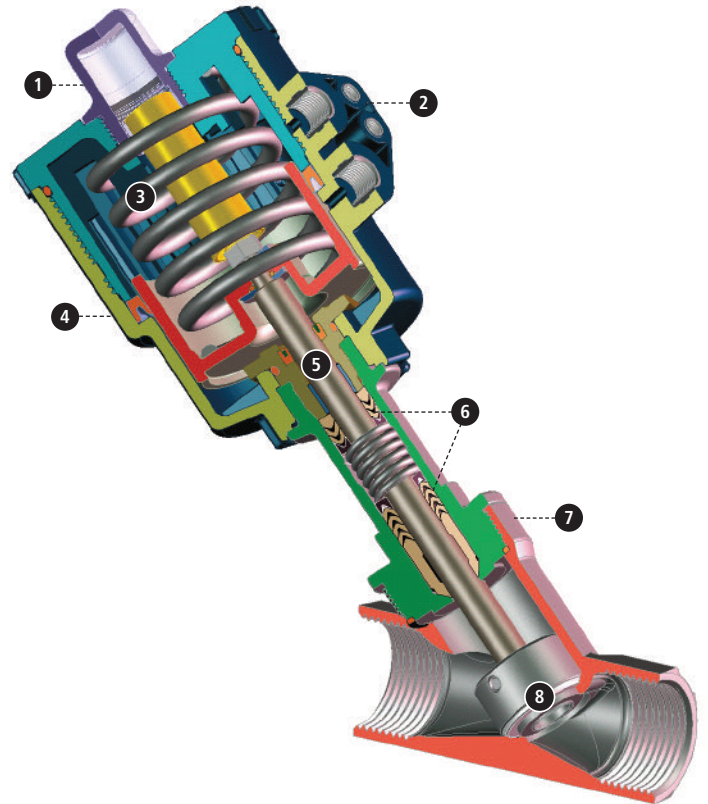
High Cycle-Life On/Off Control Valve (Cutaway View)

PARTS & FEATURES

- 1. Visual Indicator:** Position status indication with visual indicator (standard) or limit switch box (optional).
- 2. NAMUR Connection:** The NAMUR connection for the control valve is provided as standard.
- 3. Spring:** Stainless steel.
- 4. Control Head:** The control head rotates 360° for selective positioning of the pneumatic inlet port.
- 5. Piston/Cylinder:** The superior design of the piston/cylinder, unique on the market, enables the plug to retract farther from the flow path, ensuring a higher flow capacity and less restriction. The metal piston, with its special wear-resistant coating, and the employment of self-lubricating guides and seals provide an extremely high cycle life, even through constant use under the most extreme conditions.
- 6. Stem Packing:** Dual chevron stem packing, live loaded with chevron washers, provides a stem seal far superior to other angle valve designs.
- 7. Microcast Body:** 316 stainless steel or brass construction.
- 8. Plug:** 316 stainless steel pinned plug allows the seat to adjust and find the optimal seal over time, which gives an extended seat life vs. competitive models.

ADDITIONAL DESIGN FEATURES

- **Advanced Pneumatic Actuator:** The high grade Polyamide materials used, together with an increased thickness guarantees reliability and safety.
- **Versatility:** Adjusting the configuration of the actuator head, the valve can be switched from spring return (NO or NC) to double acting.
- **Flow From Above The Plug and Condensable Media:** Thanks to these features it is possible to use smaller control heads.
- **Unique Internal Flow:** The ideal internal flow characteristics, with its maximum capacity and high duty cycle, provide better performance compared to similar designs.
- **High Compatibility:** Valve body and internal components are made entirely of AISI 316 stainless steel, or brass and 316 stainless steel, and the seals are in PTFE, therefore enabling a high chemical compatibility with almost all media used in the different production processes.
- **Free From Water Hammer:** When flow is from below the plug.
- **Perfect Internal Capacity:** The special internal conformation of the valve seat avoids excessive deformation of the PTFE seal at high temperature or pressure, making the valve long-lasting. The self-aligning plug design guarantees a high duty cycle, under all kinds of pressure.
- **Extended Life:** The stainless steel spring and the particular shape of the dual self-adjusting stem seals, ensure a perfect tightness through wear and tear of time.
- **No Maintenance:** The valve is provided with long lasting seals. Guides and seals are made with a self-lubricating material.



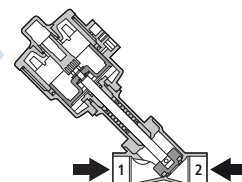
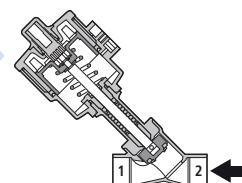
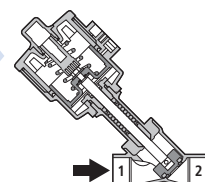
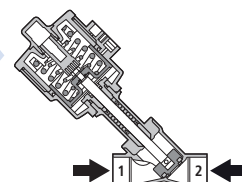
Angle Seat Valve (NPT)

High Cycle-Life On/Off Control Valve
 (Stainless steel or bronze)

QUICK SIZING CHART

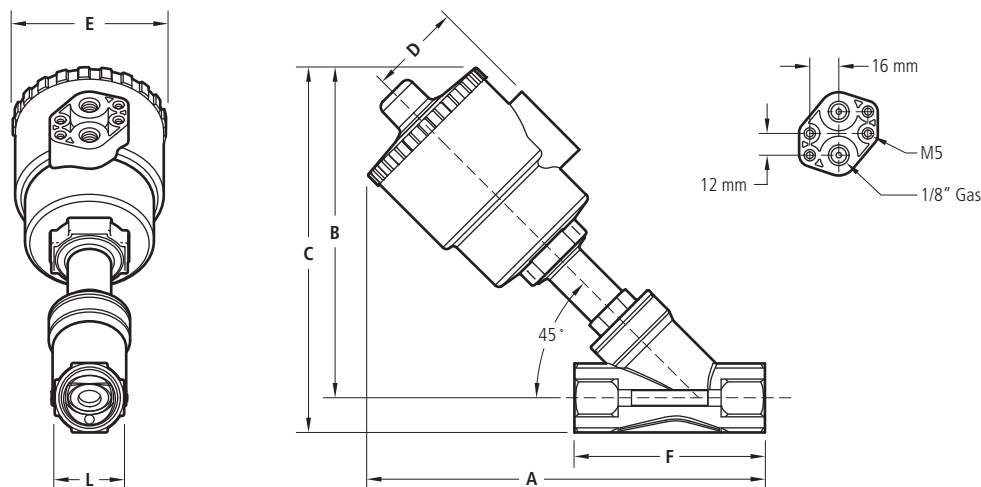
Normally Closed, Bi-directional Flow (1 to 2 or 2 to 1)							
Size	CV	Actuator Size	Wt. (lbs.)	Max. Line Pressure* (PSI)		Model No.	
				Air Supply: 80**		Stainless Steel	Bronze
3/8"	5.68	50	2.42	232		J4SPG1643	J9SPG1643
1/2"	6.61	50	2.20	232		J4SPG1644	J9SPG1644
3/4"	12.18	50	2.64	232		J4SPG1645	J9SPG1645
3/4"	12.53	63	2.64	232		J4SPG1845	J9SPG1845
1"	23.20	63	3.52	232		J4SPG1846	J9SPG1846
1"	23.20	90	3.74	232		J4SPG2146	J9SPG2146
1-1/4"	33.64	90	6.60	232		J4SPG2147	J9SPG2147
1-1/2"	53.36	90	7.48	160		J4SPG2148	J9SPG2148
1-1/2"	53.94	110	8.80	232		J4SPG2348	J9SPG2348
2"	77.72	110	11.66	232		J4SPG2349	J9SPG2349
Normally Closed, Flow From Above (1 to 2)							
Size	CV	Actuator Size	Wt. (lbs.)	Max. Line Pressure* (PSI)		Model No.	
				Air supply: 60	Air Supply: 80	Stainless Steel	Bronze
3/8"	5.68	50	2.20	232	232	J4CPG1643	J9CPG1643
1/2"	6.61	50	2.20	232	232	J4CPG1644	J9CPG1644
3/4"	12.18	50	2.64	232	232	J4CPG1645	J9CPG1645
1"	23.20	63	3.52	232	232	J4CPG1846	J9CPG1846
1-1/4"	33.64	90	6.82	232	232	J4CPG2147	J9CPG2147
1-1/2"	53.36	90	8.14	232	232	J4CPG2148	J9CPG2148
1-1/2"	53.94	110	10.12	232	232	J4CPG2348	J9CPG2348
2"	68.44	90	9.68	143	232	J4CPG2149	J9CPG2149
2"	77.72	110	16.72	232	232	J4CPG2349	J9CPG2349
Normally Open, Flow From Below (2 to 1)							
Size	CV	Actuator Size	Wt. (lbs.)	Max. Line Pressure* (PSI)		Model No.	
				Air supply: 60	Air Supply: 80	Stainless Steel	Bronze
3/8"	5.68	50	2.20	232	232	J4APG1643	J9APG1643
1/2"	6.61	50	2.20	232	232	J4APG1644	J9APG1644
3/4"	12.18	50	2.64	170	232	J4APG1645	J9APG1645
1"	23.20	63	3.52	170	232	J4APG1846	J9APG1846
1-1/4"	33.06	63	4.40	120	200	J4APG1847	J9APG1847
1-1/4"	33.30	63	4.40	131	232	J4APG2147	J9APG2147
1-1/2"	53.36	90	8.14	150	232	J4APG2148	J9APG2148
2"	53.94	110	16.72	150	232	J4APG2349	J9APG2349
Double Acting, Bi-directional Flow (1 to 2 or 2 to 1)							
Size	CV	Actuator Size	Wt. (lbs.)	Max. Line Pressure* (PSI)		Model No.	
				Air supply: 60	Air Supply: 80	Stainless Steel	Bronze
3/8"	5.68	50	2.20	232	232	J4DPG1643	J9DPG1643
1/2"	6.61	50	2.20	232	232	J4DPG1644	J9DPG1644
3/4"	12.18	50	2.64	232	232	J4DPG1645	J9DPG1645
1"	23.20	63	3.52	232	232	J4DPG1846	J9DPG1846
1-1/4"	33.06	63	4.18	180	232	J4DPG1847	J9DPG1847
1-1/2"	40.60	63	5.06	115	170	J4DPG1848	J9DPG1848
1-1/2"	53.36	90	7.92	232	232	J4DPG2148	J9DPG2148
2"	68.44	90	9.46	232	232	J4DPG2149	J9DPG2149

* Maximum steam line pressure is 150 PSI. ** For maximum line pressure with less than 80 PSI, contact factory.



Angle Seat Valve (NPT)

High Cycle-Life On/Off Control Valve
 (Stainless steel or bronze)



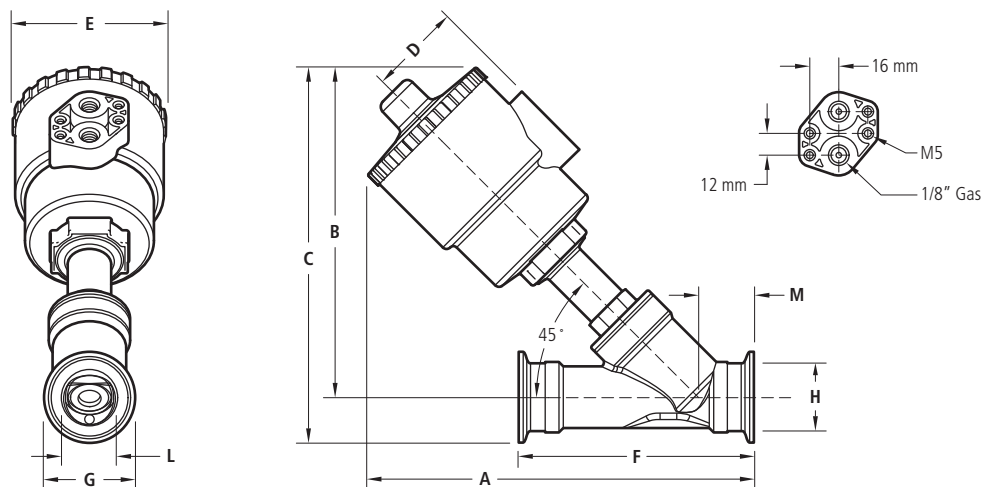
DIMENSIONS & SPECIFICATIONS

Size	Actuator	Stainless Steel								Bronze							
		C	D	øE	F	L	M	d	N .	C	D	øE	F	L	M	d	N .
3/8"	DN40**	5.74	4.74	5.26	1.38	2.40	2.56	0.98	J4⊙PG1443	5.67	4.76	5.26	1.38	2.40	2.56	1.06	J9⊙PG1443
3/8"	DN50	7.48	6.14	6.65	1.73	2.76	3.35	0.98	J4⊙PG1643	6.42	5.51	6.02	1.73	2.76	2.56	1.06	J9⊙PG1643
1/2"	DN40**	5.74	4.74	5.26	1.38	2.40	2.56	0.98	J4⊙PG1444	5.67	4.76	5.26	1.38	2.40	2.56	1.06	J9⊙PG1444
1/2"	DN50	7.48	6.14	6.65	1.73	2.76	3.35	0.98	J4⊙PG1644	6.42	5.51	6.02	1.73	2.76	2.56	1.06	J9⊙PG1644
3/4"	DN40**	6.02	4.94	5.57	1.38	2.40	2.95	1.22	J4⊙PG1445	-	-	-	-	-	-	-	-
3/4"	DN50	7.68	6.30	6.30	1.73	2.76	3.74	1.22	J4⊙PG1645	6.81	5.79	6.42	1.73	2.76	2.95	1.08	J9⊙PG1645
3/4"	DN63	8.39	7.00	7.01	1.99	3.32	3.74	1.22	J4⊙PG1845	7.52	6.5	7.13	1.99	3.32	2.95	1.08	J9⊙PG1845
1"	DN50	7.87	6.46	7.20	1.73	2.76	4.13	1.50	J4⊙PG1646	-	-	-	-	-	-	-	-
1"	DN63	8.62	7.17	7.17	1.99	3.32	4.13	1.50	J4⊙PG1846	8.11	6.93	7.72	1.99	3.32	3.54	1.61	J9⊙PG1846
1"	DN90	10.20	8.74	8.74	2.61	4.58	4.13	1.50	J4⊙PG2146	9.69	8.50	9.29	2.61	4.58	3.54	1.61	J9⊙PG2146
1-1/4"	DN50	8.19	6.61	7.52	1.73	2.76	4.72	1.85	J4⊙PG1647	-	-	-	-	-	-	-	-
1-1/4"	DN63	8.90	7.32	7.32	1.99	3.32	4.72	1.85	J4⊙PG1847	8.46	7.09	8.07	1.99	3.32	4.33	1.97	J9⊙PG1847
1-1/4"	DN90	10.47	8.90	8.90	2.61	4.58	4.72	1.85	J4⊙PG2147	10.04	8.66	9.65	2.61	4.58	4.33	1.97	J9⊙PG2147
1-1/4"	DN110	11.89	10.28	11.22	3.05	5.54	4.72	1.85	J4⊙PG2347	-	-	-	-	-	-	-	-
1-1/2"	DN63	9.09	7.48	7.48	1.99	3.32	5.12	2.13	J4⊙PG1847	-	-	-	-	-	-	-	-
1-1/2"	DN90	10.67	9.06	9.06	2.61	4.58	5.12	2.13	J4⊙PG2147	10.63	9.25	10.39	2.61	4.58	4.72	2.28	J9⊙PG2147
1-1/2"	DN110	12.09	10.47	10.47	3.05	5.54	5.12	2.13	J4⊙PG2347	12.05	10.67	11.81	3.05	5.54	4.72	2.28	J9⊙PG2347
2"	DN63	9.65	7.87	9.17	1.99	3.32	5.91	2.60	J4⊙PG1847	-	-	-	-	-	-	-	-
2"	DN90	11.22	9.45	9.45	2.61	4.58	5.91	2.60	J4⊙PG2147	11.02	9.45	10.83	2.61	4.58	5.91	2.76	J9⊙PG2147
2"	DN110	12.64	10.87	10.87	3.05	5.54	5.91	2.60	J4⊙PG2347	12.44	10.87	12.24	3.05	5.54	5.91	2.76	J9⊙PG2347

⊙ Actuator Style: C = Closed, 1 spring; = Closed, 2 springs; = Open; D = Double acting.
 * Available for Quick Ship. ** Actuator does not have NAMUR solenoid mounting pad.

Angle Seat Valve (Tri-Clamp)

High Cycle-Life On/Off Control Valve
(Stainless steel)



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size*	A	B	C	D	E	F	G	H	L	M	Actuator	CV	Wt. (lbs.)	Model No.
1/2"	7.05	6.14	6.64	1.73	2.76	3.50	0.99	0.75	0.37	0.93	DN50	4.0	2.20	J4OPG16U6
3/4"	7.15	6.14	6.64	1.73	2.76	4.00	0.99	0.75	0.62	1.02	DN50	6.7	2.64	J4OPG16U5
1"	7.45	6.30	7.29	1.73	2.76	4.50	1.99	1.26	0.87	1.14	DN50	12	3.52	J4OPG16U6
1"	8.16	7.01	8.00	1.99	3.32	4.50	1.99	1.26	0.87	1.14	DN63	12	3.74	J4OPG18U6
1-1/2"	8.45	7.32	8.32	1.99	3.32	5.50	1.99	1.50	1.37	1.15	DN63	33	7.48	J4OPG18U8
1-1/2"	10.02	8.90	9.89	2.61	4.58	5.50	1.99	1.50	1.37	1.15	DN90	33	8.80	J4OPG21U8
1-1/2"	11.44	10.28	11.27	3.05	5.54	5.50	1.99	1.50	1.37	1.15	DN110	33	9.46	J4OPG23U8
2"	8.85	7.48	8.74	1.99	3.32	6.25	2.52	2.13	1.87	1.37	DN63	53	9.68	J4OPG18U9
2"	10.42	9.06	10.31	2.61	4.58	6.25	2.52	2.13	1.87	1.37	DN90	53	11.66	J4OPG21U9
2"	11.84	10.47	11.73	3.05	5.54	6.25	2.52	2.13	1.87	1.37	DN110	53	16.72	J4OPG23U9

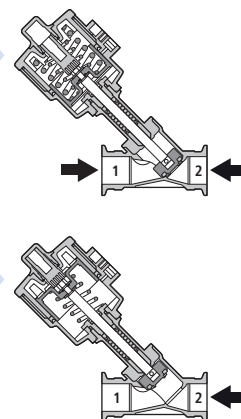
⊙ Actuator Style: **S** = Closed, 2 springs; **A** = Open.

* Mating clamp/pipe size.

QUICK SIZING CHART

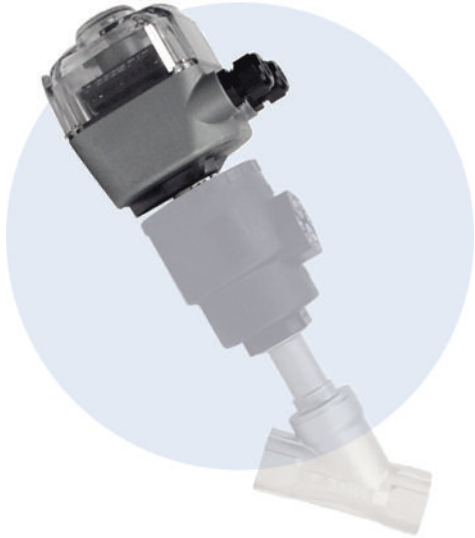
Normally Closed, Bi-directional Flow (1 to 2 or 2 to 1)							
Size	CV	Actuator Size	Wt. (lbs.)	Max. Line Pressure* (PSI)		Model No.	
				Air Supply: 80**		Stainless Steel	Bronze
1/2"	4.0	50	2.20	232		J4SPG16U4	J9SPG16U4
3/4"	6.7	50	2.64	232		J4SPG16U5	J9SPG16U5
1"	12.0	63	3.52	232		J4SPG18U6	J9SPG18U6
1-1/2"	33.0	90	7.48	232		J4SPG21U8	J9SPG21U8
2"	53.0	110	11.66	232		J4SPG23U9	J9SPG23U9
Normally Open, Flow From Below (2 to 1)							
Size	CV	Actuator Size	Wt. (lbs.)	Max. Line Pressure* (PSI)		Model No.	
				Air supply: 60	Air Supply: 80	Stainless Steel	Bronze
1/2"	4.0	50	2.20	232	232	J4APG16U4	J9APG16U4
3/4"	6.7	50	2.64	232	232	J4APG16U5	J9APG16U5
1"	12.0	63	3.52	170	232	J4APG16U6	J9APG16U6
1-1/2"	33.0	90	8.14	120	200	J4APG18U8	J9APG18U8
2"	53.0	110	16.72	150	232	J4APG21U9	J9APG21U9

* Maximum steam line pressure is 150 PSI. ** For maximum line pressure with less than 80 PSI, contact factory.



Angle Seat Valve A-Link

A-Link Angle Valve Communications Module (Communications and Switching Functionality)



FEATURES

- SST solid state switching functions.
- NAMUR sensors.
- ASI interface.
- Foundation fieldbus.
- DeviceNet.
- Modbus.
- Self adjusting non-contact targets.
- Visual mechanical and electronic indications.
- 2 conduit entries.
- Large selection of connectors.
- Integral solenoid valve.

MATERIALS OF CONSTRUCTION

Cover:

Clear polycarbonate (FDA compliant).

Base:

Polycarbonate (FDA compliant).

Seals:

BUNA-N (FDA compliant).

Mounting Hardware:

Stainless steel.

SPECIFICATIONS

Operating Life:

1 million cycles (switch).

Warranty:

2 years on complete assembly.

Temperature Range:

-40° to 85° C, -23° to 185° F.

Enclosure Protection:

NEMA 4, 4X and 6; IP67.

Hazardous Locations (non-incendive):

May be used in Class I and II, all groups, Div. II.

A-LINK

MODEL NUMBERING

Model Number: _____

Switch Function: _____

33 = (2) SST Sensors

*Valve Communication
Terminals (VCT)*

92 = DeviceNet*

93 = Foundation Fieldbus
(bus powered, I.S.)**

94 = Foundation Fieldbus
(externally powered)*

95 = Modbus*

96 = ASI Interface*

Solenoid: _____

11 = No Solenoid

Integral to Enclosure

1A = 3 Way Piezo Direct***

1B = 3 Way 24 VDC (1.8 W)

1C = 3 Way 120 VAC (7.2 W)

NAMUR Mount

(wired to terminal)

EA = 3 Way 120 VAC

EB = 3 Way 24 VDC

CA = 4 Way 120 VAC

CB = 4 Way 24 VDC

Other voltages available.

Conduit Entries: _____

2 = (2) 1/2" NPT

9 = (2) PG 13.5 Cable Glands

3 = (1) 5-Pin Mini-Connector

4 = (1) 4-Pin Mini-Connector

5 = (2) 4-Pin Mini-Connectors

6 = (1) 5-Pin Mini-Connector

Visual Indicator: _____

R = Red

G = Green

* Solenoid 1B only.

** Solenoid 1A only.

*** For use with 93 only.

J Series

2-way Solenoid Valve



The J Series is a general purpose 2-way solenoid valve with NPT end connections that can be used in a wide variety of applications.

FEATURES

- Normally closed or normally open.
- Pilot operated.
- NPT threaded connections.
- Shape B DIN 43650 connection encapsulated minicoils.
- IP65 and NEMA-4 protection.

TYPICAL APPLICATIONS

- Pumps and compressors.
- Pollution control equipment.
- Heating with low or high pressure steam.
- Autoclaves and air dryers.
- Water treatment equipment.
- Washing machines and dishwashers.
- Lubricated air, hot air and dry air applications.
- Oxygen and acetylene equipment.
- Spraying and irrigation equipment.

PRESSURE RANGE

Normally Closed:

3 to 225 PSI: 1/2" to 3/4"
3 to 45 PSI: steam (EPDM only), 1/2" to 3/4"
4.5 to 225 PSI: 1"
4.5 to 45 PSI: steam (EPDM only), 1"

Normally Open:

3 to 150 PSI: 1/2" to 3/4"
3 to 45 PSI: steam (EPDM only), 1/2" to 3/4"
1.5 to 150 PSI: 1"
1.5 to 60 PSI: steam (EPDM only), 1"

TEMPERATURE RANGE

Up to 176°F (BUNA-N)
Up to 302°F (EPDM)

Note: Placing a strainer upstream the valve with a porosity $\leq 100\mu$ is recommended. Mounting valve over horizontal pipeline with the coil upright is preferable. Valve input pressure must always be greater than the output pressure. In order to allow the valve to open, the minimum pressure indicated must be respected.

MATERIALS OF CONSTRUCTION

Body:

Brass.

Seats and Seals:

BUNA-N or EPDM (required for steam service).

SPECIFICATIONS

Electrical Connection:

Shape B DIN 43650 with cord grip.

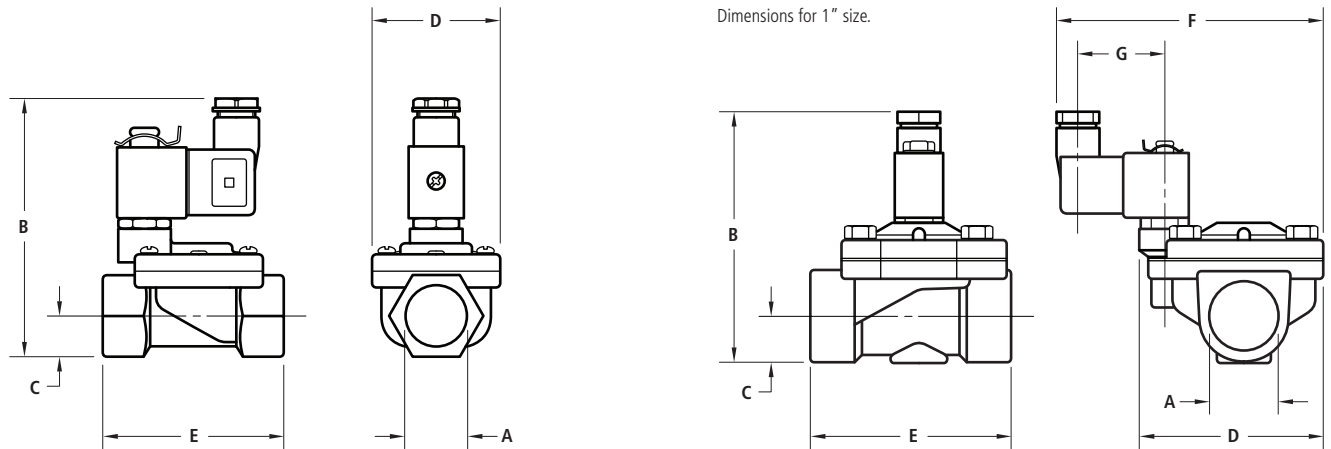
CV FACTORS

Size	CV (NC)	CV (NO)
3/8"	2.9	2.75
1/2"	4.2	3.10
3/4"	6.4	5.03
1"	10.5	13.00

J Series

2-way solenoid valve, normally closed

(Threaded end connection, pilot operated)



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	C	D	E	F	G	Wt. (lbs.)	Model No.	
									EPDM	BUNA-N
3/8"	0.50	3.74	0.51	1.77	2.52	-	-	0.7	2036BE03T	2036BA03T
1/2"	0.50	3.74	0.51	1.77	2.52	-	-	0.7	2036BE04T	2036BA04T
3/4"	0.63	4.06	0.67	2.05	2.86	-	-	1.4	2036BE06T	2036BA06T
1"	1.00	4.37	0.79	3.19	3.43	4.65	1.38	2.2	2036BE08T	2036BA08T

© Voltage: **A** = 110 VAC; **B** = 24 VDC.

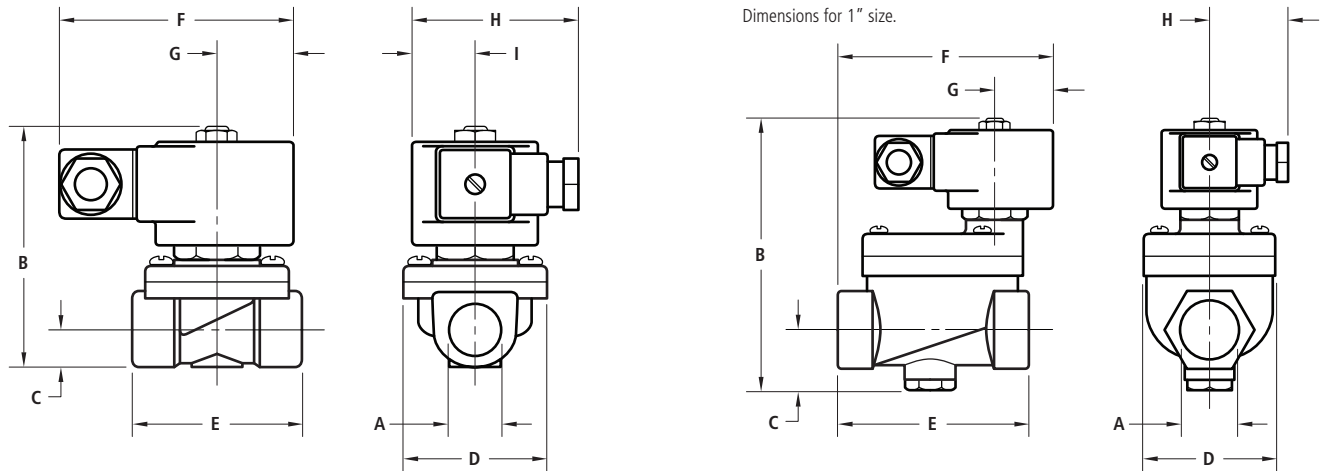
J VALVE FEATURES

- Normally closed.
- Pilot operated.
- NPT threaded connections.
- Shape B DIN 43650 connection encapsulated minicoils; cord grip.
- IP65 and NEMA-4 protection.
- Temperature range: Up to 176°F (BUNA-N), up to 302°F (EPDM).
- Pressure range: 3 to 225 PSI: 1/2" to 3/4",
3 to 45 PSI: steam (EPDM only), 1/2" to 3/4",
4.5 to 225 PSI: 1",
4.5 to 45 PSI: steam (EPDM only), 1".

J Series

2-way solenoid valve, normally open

(Threaded end connection, pilot operated)



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	C	D	E	F	G	H	I	Wt. (lbs.)	Model No.	
											EPDM	BUNA-N
3/8"	0.55	3.74	0.59	2.01	2.36	3.35	1.02	2.24	0.87	1.75	1335BE3INAT⊙	1335BA3INAT⊙
1/2"	0.55	3.74	0.59	2.01	2.36	3.35	1.02	2.24	0.87	1.75	1335BE4INAT⊙	1335BA4INAT⊙
3/4"	0.71	3.90	0.67	2.28	2.83	3.35	1.02	2.24	0.87	2.00	1335BE6INAT⊙	1335BA6INAT⊙
1"	1.02	5.43	1.18	2.64	3.78	4.09	1.06	1.38	-	3.80	1342BE08INAT⊙	1342BA08INAT⊙

⊙ Voltage: A = 110 VAC; B = 24 VDC.

J VALVE FEATURES

- Normally open.
- Pilot operated.
- NPT threaded connections.
- Shape B DIN 43650 connection encapsulated minicoils; cord grip.
- IP65 and NEMA-4 protection.
- Temperature range: Up to 176°F (BUNA-N), up to 302°F (EPDM).
- Pressure range: 3 to 150 PSI: 1/2" to 3/4",
3 to 45 PSI: steam (EPDM only), 1/2" to 3/4",
1.5 to 150 PSI: 1",
1.5 to 60 PSI: steam (EPDM only), 1".

26 Series

Stainless Steel 2-way Full Port Ball Valve

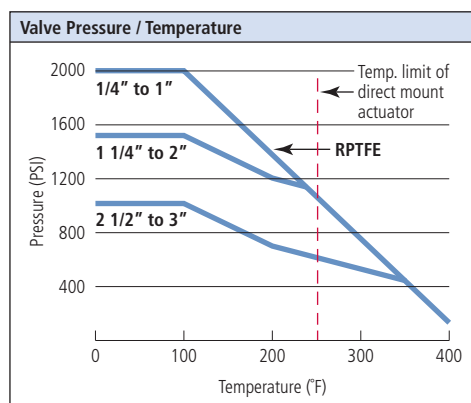
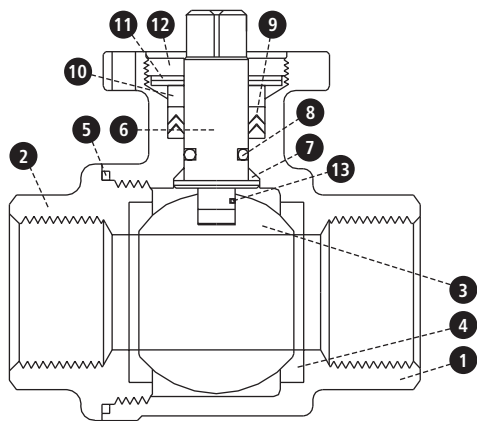


The 26 is a full port, 316 stainless steel, NPT threaded end automated ball valve. It can be equipped with a manual handle or with direct mount pneumatic or electric actuators. The direct mount actuators eliminate the valve-actuator mounting kit, which adds unnecessary height and expense.

A full range of accessory items are available including limit switches, solenoid valves, positioners and manual override devices.

FEATURES

- Silicone free.
- Full port for unobstructed flow.
- Investment cast 2-piece body.
- Live-loaded pyramidal stem seal design.
- Blow-out proof stem.
- High cycle stem design.
- Integrated mounting pad for actuators.
- Compact assembly.
- Complete line of accessories.



ACTUATOR CONFIGURATIONS

- Electric.
- Pneumatic (spring return).
- Pneumatic (double acting).
- Manual handle.

PRESSURE RANGE

29 inHg vacuum to 2000 PSI:
1/4" to 1"
29 inHg vacuum to 1500 PSI:
1-1/4" to 2"
29 inHg vacuum to 1000 PSI:
2-1/2" to 3"

TEMPERATURE RANGE

-30°F to 400°F

TYPICAL APPLICATIONS

- Air drying equipment.
- Sterilizers and autoclaves.
- Pollution control equipment.
- Process control applications.
- Laundry equipment.
- Textile dyeing and drying.
- Bottling and dispensing.
- Ink and paint dispensing.

MATERIALS OF CONSTRUCTION

Part	Qty.	Description	Standard Material
1	1	Body	1.4408 or 1.0619
2	2	End Cap	1.4408 or 1.0619
3	1	Ball	316 Stainless Steel
4	2	Seat	RPTFE
5	2	Body Gasket	PTFE
6	1	Stem	316 Stainless Steel
7	1	Pyramidal Stem Seal	PTFE
8	1	O-Ring	Viton®
9	varies	V-Ring Stem Packing	PTFE
10	1	Gland	304 Stainless Steel
11	2	Belleville Washer	301 Stainless Steel
12	1	Disc Plate	304 Stainless Steel
13	2	Anti-Static Device	316 Stainless Steel

CV FACTORS

Size	CV
1/4"	13
3/8"	13
1/2"	23
3/4"	70
1"	116
1-1/4"	151
1-1/2"	197
2"	325

26 Series

Stainless Steel 2-way Full Port Ball Valve (Cutaway View)

PARTS & FEATURES

Stem: The 26 sturdy blow-out proof stem is designed for direct mounting of actuator that meets ISO5211 specifications. Stem top is drilled for optional installation of handle for manual operation.

Mounting Pad: Two sets of ISO5211 mounting patterns are available to accommodate a great range of actuators. Machined flat surface ensures correct alignment of actuator to the stem top for minimum side loading during operation.

Ball: Precision machined and polished to a mirror finish for bubble tight shut-off. Each Ball is designed to have minimum torque and provides high cycle life.

Seat and Gasket Set: The 26 ball seat is set inside our heavy-duty gasket ensuring sealing integrity of the valve body. Elasticity of the seat-gasket union enables a bubble tight shut-off at every level of rated pressure range.

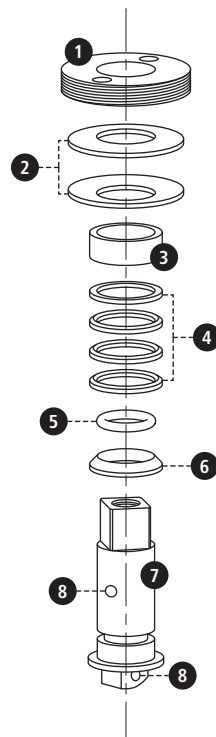
Body: Two-piece design.

HIGH CYCLE STEM DESIGN FEATURES

- **Live Loading Stem Sealing (Disc Plate and Belleville Washer):** The disc plate uniformly compresses the pair of Belleville washers to store energy for live loading. Live loading extends the time required between maintenance. During high cycle operation, the system works independently to maintain sealing integrity.
- **Independent Stem Rotation:** The rotational movement of the stem is independent of disc plate and Belleville washers (the live loading system). The action of stem rotation does not disrupt the sealing tightness of the disc plate.
- **Anti-Static Device:** To eliminate the possibility of static electrical charges within the valve, two grounding connections are set in the stem to ensure electrical continuity for the entire ball valve.

Three stages of stem sealing for effective control of stem leakage:

- **Pyramidal Body and Stem Seal (1st Stage):** Internal pressure of the valve pushes the pyramidal stem sealing upward. Because of its shape, the sealing expands to fill all the air pockets that might become a potential leakage path in the lower stem area.
- **Viton® O-Ring (2nd Stage):** The elastic nature of the Viton® O-Ring serves as an effective sealing for gaseous medium that might escape the 1st stage sealing.
- **V-Ring Stem Packing (3rd Stage):** Live loading action of the Belleville washer expands the V-Ring stem packing, filling all the air pockets in the outer stem area. It effectively seals internal media within as well as keeping external media from entering the system.

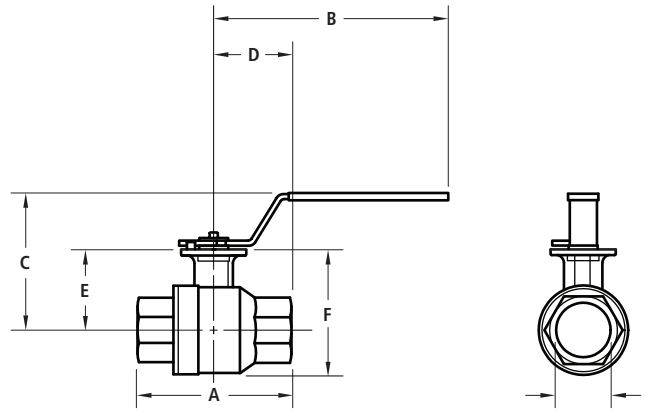


PARTS

1. Disc Plate
2. Belleville Washers
3. Gland
4. V-Ring Stem Packing
5. O-Ring
6. Pyramidal Stem Seal
7. Stem
8. Anti-Static Device

26NRXM Series

Stainless steel 2-way full port ball valve with manual handle
 (Threaded end connection, 2 piece body)



DIMENSIONS, WEIGHTS & SPECIFICATIONS

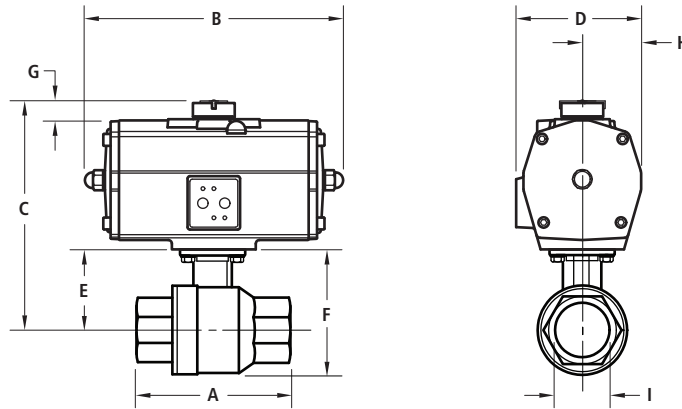
Size	A	B	C	D	E	F	I	Wt. (lbs.)	Model No.
1/4"	2.56	5.14	3.00	1.28	1.65	2.42	.250	1.2	A26NRXM
3/8"	2.56	5.14	3.00	1.28	1.65	2.42	.375	1.2	B26NRXM
1/2"	2.95	5.14	3.00	1.47	1.65	2.42	.500	1.2	C26NRXM
3/4"	3.15	5.14	3.16	1.57	1.77	2.65	.750	1.4	D26NRXM
1"	3.54	7.50	3.75	1.77	2.05	3.13	1.00	2.8	E26NRXM
1-1/4"	4.33	7.50	3.75	2.16	2.28	3.55	1.25	3.7	F26NRXM
1-1/2"	4.72	8.10	4.54	2.36	2.68	4.25	1.50	5.8	G26NRXM
2"	5.51	8.10	4.54	2.75	3.03	4.92	2.00	8.8	H26NRXM
3"	8.07	11.85	6.72	4.03	4.37	7.25	3.00	12.5	J26NRXM

26 VALVE FEATURES

- Full port 316 stainless steel body and ball.
- RPTFE seats and seals.
- NPT threaded end connection.
- Temperature range: -30°F to 400°F.
- Pressure range: 29 inHg vacuum to 2000 PSI: 1/4" to 1",
 29 inHg vacuum to 1500 PSI: 1-1/4" to 2",
 29 inHg vacuum to 1000 PSI: 2-1/2" to 3".

26NRXEDA Series

Stainless steel 2-way full port ball valve with double acting pneumatic actuator
 (Threaded end connection, 2 piece body, actuators are sized for 300 PSI pressure differential)



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	C	D	E	F	G	H	I	Actuator	Wt. (lbs.)	Model No.
80 psig Minimum Actuator Air Supply = 8D												
1/4"	2.56	6.26	5.59	3.26	1.65	2.42	.79	1.46	.250	ED25	4.0	A26NRXE8D
3/8"	2.56	6.26	5.59	3.26	1.65	2.42	.79	1.46	.375	ED25	4.0	B26NRXE8D
1/2"	2.95	6.26	5.59	3.26	1.65	2.42	.79	1.46	.500	ED25	4.1	C26NRXE8D
3/4"	3.15	6.26	5.71	3.26	1.77	2.65	.79	1.46	.750	ED25	4.3	D26NRXE8D
1"	3.54	6.26	5.99	3.26	2.05	3.13	.79	1.46	1.00	ED25	5.7	E26NRXE8D
1-1/4"	4.33	7.09	6.73	3.78	2.28	3.55	.79	1.70	1.25	ED40	7.7	F26NRXE8D
1-1/2"	4.72	7.09	7.13	3.78	2.68	4.25	.79	1.70	1.50	ED40	9.8	G26NRXE8D
2"	5.51	7.83	7.95	4.19	3.03	4.92	.79	1.93	2.00	ED65	14.1	H26NRXE8D
3"	8.07	11.14	10.79	5.39	4.37	7.25	.79	2.52	3.00	ED200	25.3	J26NRXE8D
60 psig Minimum Actuator Air Supply = 6D												
1/4"	2.56	6.26	5.59	3.26	1.65	2.42	.79	1.46	.250	ED25	4.0	A26NRXE6D
3/8"	2.56	6.26	5.59	3.26	1.65	2.42	.79	1.46	.375	ED25	4.0	B26NRXE6D
1/2"	2.95	6.26	5.59	3.26	1.65	2.42	.79	1.46	.500	ED25	4.1	C26NRXE6D
3/4"	3.15	6.26	5.71	3.26	1.77	2.65	.79	1.46	.750	ED25	4.3	D26NRXE6D
1"	3.54	6.26	6.50	3.78	2.05	3.13	.79	1.70	1.00	ED40	6.8	E26NRXE6D
1-1/4"	4.33	7.09	6.73	3.78	2.28	3.55	.79	1.70	1.25	ED40	7.7	F26NRXE6D
1-1/2"	4.72	7.83	7.60	4.19	2.68	4.25	.79	1.93	1.50	ED65	11.0	G26NRXE6D
2"	5.51	8.70	8.43	4.60	3.03	4.92	.79	2.12	2.00	ED100	15.6	H26NRXE6D
3"	8.07	11.14	10.79	5.39	4.37	7.25	.79	2.52	3.00	ED200	25.3	J26NRXE6D

26 VALVE FEATURES

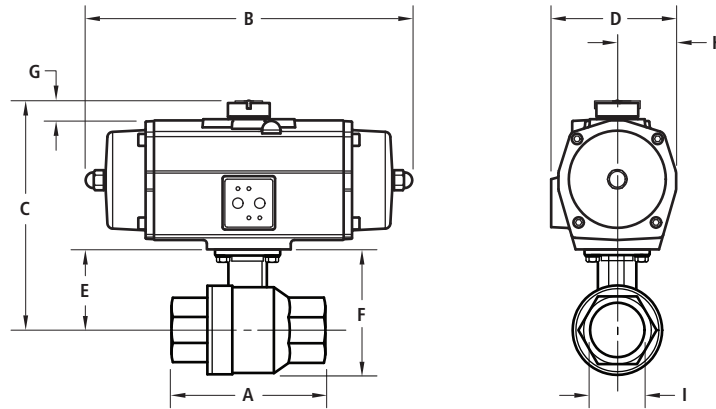
- Full port 316 stainless steel body and ball.
- RPTFE seats and seals.
- NPT threaded end connection.
- Temperature range: -30°F to 400°F.
- Pressure range: 29 inHg vacuum to 2000 PSI: 1/4" to 1",
29 inHg vacuum to 1500 PSI: 1-1/4" to 2",
29 inHg vacuum to 1000 PSI: 2-1/2" to 3".

PNEUMATIC ACTUATOR FEATURES

- E Series double acting rack and pinion actuator.
- Corrosion resistant coating.
- NAMUR solenoid mounting pad, ISO 5211 mounting standard.
- Visual position indicators.
- High duty cycle.
- Permanent lubrication.
- Temperature range: -4°F to 175°F.

26NRXESR Series

Stainless steel 2-way full port ball valve with spring return pneumatic actuator
 (Threaded end connection, 2 piece body, actuators are sized for 300 PSI pressure differential)



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	C	D	E	F	G	H	I	Actuator	Wt. (lbs.)	Model No.
80 psig Minimum Actuator Air Supply = 85												
1/4"	2.56	6.77	5.59	3.26	1.65	2.42	.79	1.46	.250	ES25-4	4.9	A26NRXE8S
3/8"	2.56	6.77	5.59	3.26	1.65	2.42	.79	1.46	.375	ES25-4	4.9	B26NRXE8S
1/2"	2.95	6.77	5.59	3.26	1.65	2.42	.79	1.46	.500	ES25-4	4.9	C26NRXE8S
3/4"	3.15	6.77	5.71	3.78	1.77	2.65	.79	1.46	.750	ES25-4	5.1	D26NRXE8S
1"	3.54	8.03	6.50	3.78	2.05	3.13	.79	1.46	1.00	ES40-4	8.0	E26NRXE8S
1-1/4"	4.33	8.03	6.73	3.78	2.28	3.55	.79	1.70	1.25	ES40-4	9.0	F26NRXE8S
1-1/2"	4.72	9.80	7.60	4.19	2.68	4.25	.79	1.70	1.50	ES65-4	13.7	G26NRXE8S
2"	5.51	14.17	9.45	5.39	3.03	4.92	.79	1.93	2.00	ES200-4	28.9	H26NRXE8S
3"	8.07	15.24	12.29	7.12	4.37	7.25	.79	2.52	3.00	ES350-4	49.8	J26NRXE8S
60 psig Minimum Actuator Air Supply = 65												
1/4"	2.56	5.12	5.59	3.26	1.65	2.42	.79	1.46	.250	ES25-4	4.9	A26NRXE6S
3/8"	2.56	5.12	5.59	3.26	1.65	2.42	.79	1.46	.375	ES25-4	4.9	B26NRXE6S
1/2"	2.95	5.12	5.59	3.26	1.65	2.42	.79	1.46	.500	ES25-4	4.9	C26NRXE6S
3/4"	3.15	8.03	6.22	3.78	1.77	2.65	.79	1.46	.750	ES40-4	6.8	D26NRXE6S
1"	3.54	9.80	6.97	4.19	2.05	3.13	.79	1.70	1.00	ES65-4	10.7	E26NRXE6S
1-1/4"	4.33	9.80	7.20	4.19	2.28	3.55	.79	1.70	1.25	ES65-4	11.6	F26NRXE6S
1-1/2"	4.72	10.51	8.12	4.60	2.68	4.25	.79	1.93	1.50	ES100-4	15.9	G26NRXE6S
2"	5.51	14.17	9.45	5.39	3.03	4.92	.79	2.12	2.00	ES200-4	28.9	H26NRXE6S
3"	8.07	15.24	12.29	7.12	4.37	7.25	.79	2.52	3.00	ES350-4	49.8	J26NRXE6S

26 VALVE FEATURES

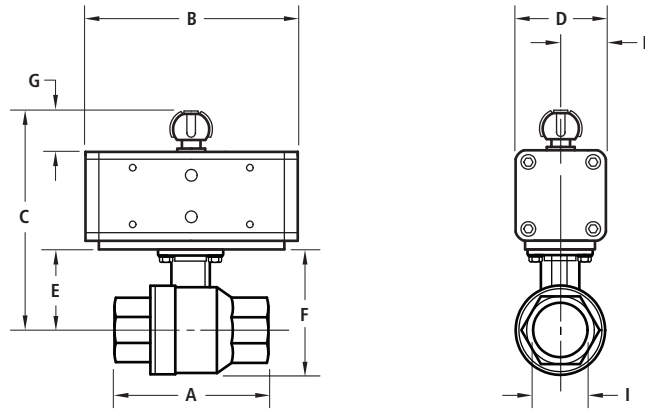
- Full port 316 stainless steel body and ball.
- RPTFE seats and seals.
- NPT threaded end connection.
- Temperature range: -30°F to 400°F.
- Pressure range: 29 inHg vacuum to 2000 PSI: 1/4" to 1",
29 inHg vacuum to 1500 PSI: 1-1/4" to 2",
29 inHg vacuum to 1000 PSI: 2-1/2" to 3".

PNEUMATIC ACTUATOR FEATURES

- E Series spring return rack and pinion actuator.
- Corrosion resistant coating.
- NAMUR solenoid mounting pad, ISO 5211 mounting standard.
- Visual position indicators.
- High duty cycle.
- Permanent lubrication.
- Temperature range: -4°F to 175°F.

26NRXODA Series

Stainless steel 2-way full port ball valve with double acting pneumatic actuator
 (Threaded end connection, 2 piece body, actuators are sized for 300 PSI pressure differential)



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	C	D	E	F	G	H	I	Actuator	Wt. (lbs.)	Model No.
80 psig Minimum Actuator Air Supply = 8D												
1/4"	2.56	5.12	4.80	2.16	1.65	2.42	.79	1.08	.250	PD030	3.3	A26NRX08D
3/8"	2.56	5.12	4.80	2.16	1.65	2.42	.79	1.08	.375	PD030	3.3	B26NRX08D
1/2"	2.95	5.12	4.80	2.16	1.65	2.42	.79	1.08	.500	PD030	3.4	C26NRX08D
3/4"	3.15	5.12	5.31	2.16	1.77	2.65	.79	1.08	.750	PD030	3.7	D26NRX08D
1"	3.54	5.67	5.42	2.36	2.05	3.13	.79	1.18	1.00	PD045	5.5	E26NRX08D
1-1/4"	4.33	5.67	5.65	2.36	2.28	3.55	.79	1.18	1.25	PD045	6.5	F26NRX08D
1-1/2"	4.72	6.65	6.52	2.83	2.68	4.25	.79	1.41	1.50	PD090	9.8	G26NRX08D
2"	5.51	6.65	6.87	2.83	3.03	4.92	.79	1.41	2.00	PD090	12.9	H26NRX08D
3"	8.07	8.35	9.33	3.54	4.37	7.25	1.18	1.77	3.00	PD180	20.0	J26NRX08D
60 psig Minimum Actuator Air Supply = 6D												
1/4"	2.56	5.12	4.80	2.16	1.65	2.42	.79	1.08	.250	PD030	3.3	A26NRX06D
3/8"	2.56	5.12	4.80	2.16	1.65	2.42	.79	1.08	.375	PD030	3.3	B26NRX06D
1/2"	2.95	5.12	4.80	2.16	1.65	2.42	.79	1.08	.500	PD030	3.4	C26NRX06D
3/4"	3.15	5.12	5.31	2.16	1.77	2.65	.79	1.08	.750	PD030	3.7	D26NRX06D
1"	3.54	5.67	5.42	2.36	2.05	3.13	.79	1.18	1.00	PD045	5.5	E26NRX06D
1-1/4"	4.33	5.98	5.82	2.56	2.28	3.55	.79	1.28	1.25	PD060	7.1	F26NRX06D
1-1/2"	4.72	6.65	6.52	2.83	2.68	4.25	.79	1.41	1.50	PD090	9.8	G26NRX06D
2"	5.51	7.24	7.59	3.15	3.03	4.92	1.18	1.57	2.00	PD120	15.0	H26NRX06D
3"	8.07	9.53	9.72	3.94	4.37	7.25	1.18	1.97	3.00	PD240	24.2	J26NRX06D

26 VALVE FEATURES

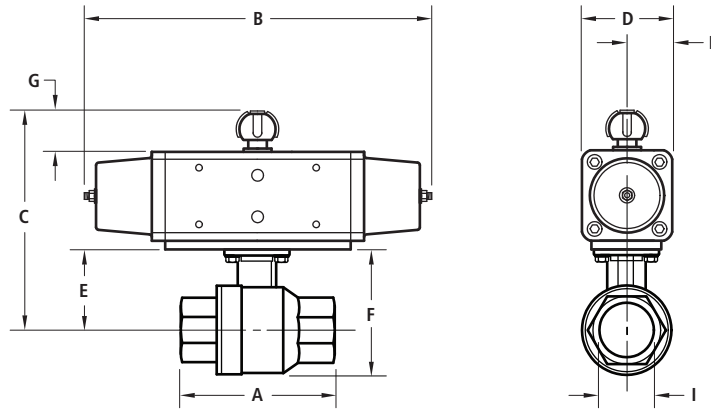
- Full port 316 stainless steel body and ball.
- RPTFE seats and seals.
- NPT threaded end connection.
- Temperature range: -30°F to 400°F.
- Pressure range: 29 inHg vacuum to 2000 PSI: 1/4" to 1",
29 inHg vacuum to 1500 PSI: 1-1/4" to 2",
29 inHg vacuum to 1000 PSI: 2-1/2" to 3".

PNEUMATIC ACTUATOR FEATURES

- O Series double acting pneumatic actuator.
- Corrosion resistant coating.
- NAMUR solenoid mounting pad, ISO 5211 mounting standard.
- Visual position indicators.
- High duty cycle.
- Permanent lubrication.
- Temperature range: -4°F to 175°F.

26NRXOSR Series

Stainless steel 2-way full port ball valve with spring return pneumatic actuator
 (Threaded end connection, 2 piece body, actuators are sized for 300 PSI pressure differential)



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	C	D	E	F	G	H	I	Actuator	Wt. (lbs.)	Model No.
80 psig Minimum Actuator Air Supply = 85												
1/4"	2.56	8.71	4.88	2.16	1.65	2.42	.79	1.08	.250	PS015	4.1	A26NRX08S
3/8"	2.56	8.71	4.88	2.16	1.65	2.42	.79	1.08	.375	PS015	4.1	B26NRX08S
1/2"	2.95	8.71	4.88	2.16	1.65	2.42	.79	1.08	.500	PS015	4.1	C26NRX08S
3/4"	3.15	9.45	5.31	2.56	1.77	2.65	.79	1.28	.750	PS030	5.9	D26NRX08S
1"	3.54	11.58	5.89	2.83	2.05	3.13	.79	1.41	1.00	PS045	8.1	E26NRX08S
1-1/4"	4.33	11.58	6.12	2.83	2.28	3.55	1.18	1.41	1.25	PS045	9.0	F26NRX08S
1-1/2"	4.72	12.60	7.24	3.15	2.68	4.25	1.18	1.57	1.50	PS060	13.4	G26NRX08S
2"	5.51	14.06	7.99	3.54	3.03	4.92	1.18	1.77	2.00	PS090	18.9	H26NRX08S
3"	8.07	17.18	10.19	4.41	4.37	7.25	1.18	2.20	3.00	PS180	33.2	J26NRX08S
60 psig Minimum Actuator Air Supply = 65												
1/4"	2.56	9.45	5.19	2.56	1.65	2.42	.79	1.28	.250	PS030	5.5	A26NRX06S
3/8"	2.56	9.45	5.19	2.56	1.65	2.42	.79	1.28	.375	PS030	5.5	B26NRX06S
1/2"	2.95	9.45	5.19	2.56	1.65	2.42	.79	1.28	.500	PS030	5.6	C26NRX06S
3/4"	3.15	9.45	5.31	2.56	1.77	2.65	.79	1.28	.750	PS030	5.9	D26NRX06S
1"	3.54	12.60	6.61	3.15	2.05	3.13	1.18	1.57	1.00	PS060	10.4	E26NRX06S
1-1/4"	4.33	12.60	6.84	3.15	2.28	3.55	1.18	1.57	1.25	PS060	11.4	F26NRX06S
1-1/2"	4.72	14.06	7.64	3.54	2.68	4.25	1.18	1.77	1.50	PS090	15.9	G26NRX06S
2"	5.51	14.65	8.38	3.94	3.03	4.92	1.18	1.97	2.00	PS120	23.5	H26NRX06S
3"	8.07	18.12	10.67	4.91	4.37	7.25	1.18	2.27	3.00	PS240	36.7	J26NRX06S

26 VALVE FEATURES

- Full port 316 stainless steel body and ball.
- RPTFE seats and seals.
- NPT threaded end connection.
- Temperature range: -30°F to 400°F.
- Pressure range: 29 inHg vacuum to 2000 PSI: 1/4" to 1",
29 inHg vacuum to 1500 PSI: 1-1/4" to 2",
29 inHg vacuum to 1000 PSI: 2-1/2" to 3".

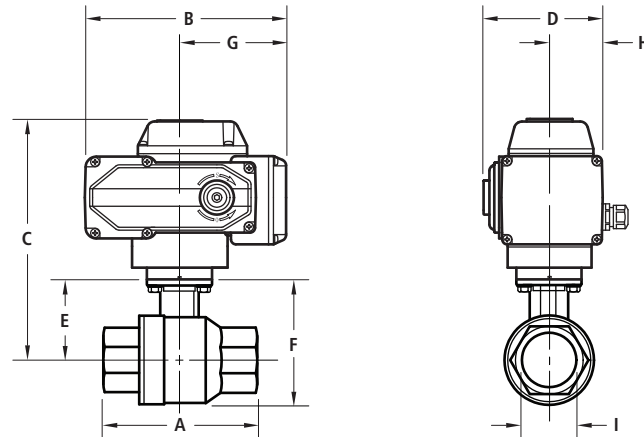
PNEUMATIC ACTUATOR FEATURES

- O Series spring return pneumatic actuator.
- Corrosion resistant coating.
- NAMUR solenoid mounting pad, ISO 5211 mounting standard.
- Visual position indicators.
- High duty cycle.
- Permanent lubrication.
- Temperature range: -4°F to 175°F.

26NRXK4 Series

Stainless steel 2-way full port ball valve with electric actuator, NEMA 4, 4X

(Threaded end connection, 2 piece body, actuators are sized for 300 PSI pressure differential)



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	C	D	E	F	G	H	I	Actuator	Wt. (lbs.)	Model No.
1/4"	2.56	8.17	8.09	4.82	1.65	2.42	4.43	2.14	.250	KOUNIC10A-ISO	11.1	A26NRXK4A
3/8"	2.56	8.17	8.09	4.82	1.65	2.42	4.43	2.14	.375	KOUNIC10A-ISO	11.1	B26NRXK4A
1/2"	2.95	8.17	8.09	4.82	1.65	2.42	4.43	2.14	.500	KOUNIC10A-ISO	11.2	C26NRXK4A
3/4"	3.15	8.17	8.21	4.82	1.77	2.65	4.43	2.14	.750	KOUNIC10A-ISO	11.4	D26NRXK4A
1"	3.54	8.17	8.49	4.82	2.05	3.13	4.43	2.14	1.00	KOUNIC10A-ISO	12.8	E26NRXK4A
1-1/4"	4.33	8.17	8.72	4.82	2.28	3.55	4.43	2.14	1.25	KOUNIC10A-ISO	13.7	F26NRXK4A
1-1/2"	4.72	8.17	9.12	4.82	2.68	4.25	4.43	2.14	1.50	KOUNIC10A-ISO	15.8	G26NRXK4A
2"	5.51	8.17	9.47	4.82	3.03	4.92	4.43	2.14	2.00	KOUNIC10A-ISO	18.8	H26NRXK4A
3"	8.07	10.10	11.65	6.16	4.37	7.25	5.23	2.46	3.00	KOUNIC20A-ISO	30.5	J26NRXK4A

26 VALVE FEATURES

- Full port 316 stainless steel body and ball.
- RPTFE seats and seals.
- NPT threaded end connection.
- Temperature range: -30°F to 400°F.
- Pressure range: 29 inHg vacuum to 2000 PSI: 1/4" to 1",
29 inHg vacuum to 1500 PSI: 1-1/4" to 2",
29 inHg vacuum to 1000 PSI: 2-1/2" to 3".

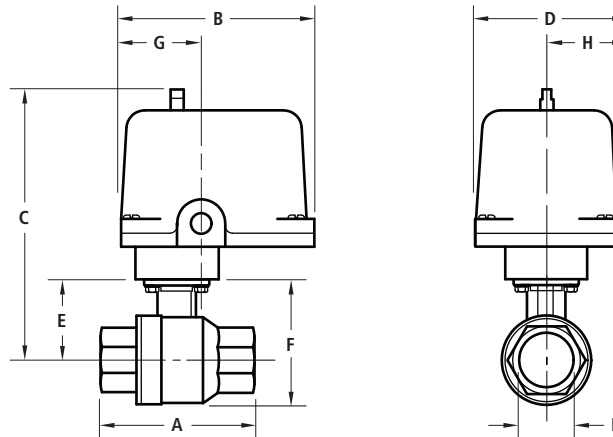
ELECTRIC ACTUATOR FEATURES

- K Series electric actuator.
- Most voltages available.
- Quarter turn: 0-90° rotation.
- NEMA 4/4X certified by UL labs.
- ISO 5211 mounting standard.
- Visual position indicators.
- Self-locking drive train.
- Mounts in any direction.
- 1/2" NPT conduit connection.
- CSA-NRTL/C and CE certified.
- Temperature range: 0°F to 160°F.

26NRXR4 Series

Stainless steel 2-way full port ball valve with electric actuator, NEMA 4, 4X

(Threaded end connection, 2 piece body, actuators are sized for 300 PSI pressure differential)



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	C	D	E	F	G	H	I	Actuator	Wt. (lbs.)	Model No.
1/4"	2.56	5.95	7.70	4.40	1.65	2.42	2.48	2.20	.250	R150 (5 sec.)	5.1	A26NRXR4Ⓢ
3/8"	2.56	5.95	7.70	4.40	1.65	2.42	2.48	2.20	.375	R150 (5 sec.)	5.1	B26NRXR4Ⓢ
1/2"	2.95	5.95	7.70	4.40	1.65	2.42	2.48	2.20	.500	R150 (5 sec.)	5.2	C26NRXR4Ⓢ
3/4"	3.15	5.95	7.82	4.40	1.77	2.65	2.48	2.20	.750	R150 (5 sec.)	5.4	D26NRXR4Ⓢ
1"	3.54	5.95	8.10	4.40	2.05	3.13	2.48	2.20	1.00	R300 (9 sec.)	8.8	E26NRXR4Ⓢ
1-1/4"	4.33	5.95	8.33	4.40	2.28	3.55	2.48	2.20	1.25	R300 (9 sec.)	9.7	F26NRXR4Ⓢ
1-1/2"	4.72	5.95	8.73	4.40	2.68	4.25	2.48	2.20	1.50	R600 (16 sec.)	11.8	G26NRXR4Ⓢ
2"	5.51	5.95	9.08	4.40	3.03	4.92	2.48	2.20	2.00	R600 (16 sec.)	14.8	H26NRXR4Ⓢ
3"	See K Series											

Ⓢ Voltage: **A** = 120 VAC; **B** = 24 VDC; **F** = 12 VDC.

26 VALVE FEATURES

- Full port 316 stainless steel body and ball.
- RPTFE seats and seals.
- NPT threaded end connection.
- Temperature range: -30°F to 400°F.
- Pressure range: 29 inHg vacuum to 2000 PSI: 1/4" to 1",
29 inHg vacuum to 1500 PSI: 1-1/4" to 2",
29 inHg vacuum to 1000 PSI: 2-1/2" to 3".

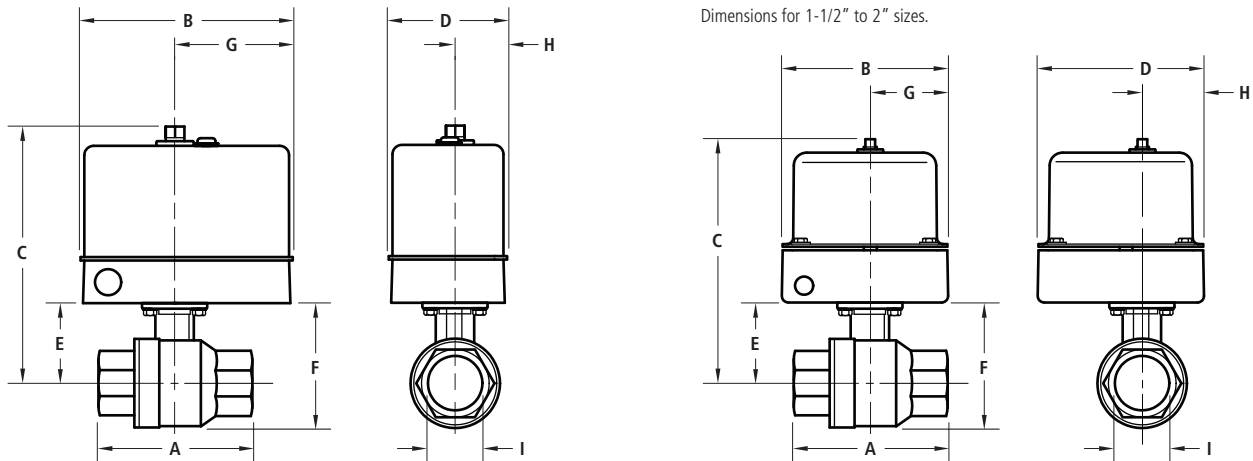
ELECTRIC ACTUATOR FEATURES

- R Series electric actuator.
- NEMA 4, 4X.
- Voltages available: 120 VAC, 12 VDC, 24 VDC.
- Duty cycle: 25% at 120 VAC, 100% at DC units.
- ISO 5211 universal mounting.
- Manual override.
- Permanent lubrication.
- Visual position indicator.
- Temperature range: 0°F to 150°F.

26NRXV4 Series

Stainless steel 2-way full port ball valve with electric actuator, NEMA 4, 4X

(Threaded end connection, 2 piece body, actuators are sized for 300 PSI pressure differential)



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	C	D	E	F	G	H	I	Actuator	Wt. (lbs.)	Model No.
1/4"	2.56	6.50	6.40	3.00	1.65	2.42	3.06	1.38	.250	EV1S1V1	6.2	A26NRXV4⊙
3/8"	2.56	6.50	6.40	3.00	1.65	2.42	3.06	1.38	.375	EV1S1V1	6.2	B26NRXV4⊙
1/2"	2.95	6.50	6.40	3.00	1.65	2.42	3.06	1.38	.500	EV1S1V1	6.2	C26NRXV4⊙
3/4"	3.15	6.50	6.52	3.00	1.77	2.65	3.06	1.38	.750	EV1S1V1	6.4	D26NRXV4⊙
1"	3.54	6.50	6.80	3.00	2.05	3.13	3.06	1.38	1.00	EV3S2V1	7.8	E26NRXV4⊙
1-1/4"	4.33	6.50	7.03	3.00	2.28	3.55	3.06	1.38	1.25	EV3S2V1	8.7	F26NRXV4⊙
1-1/2"	4.72	6.43	9.00	6.43	2.68	4.25	3.01	2.36	1.50	NV6S2V1	16.8	G26NRXV4⊙
2"	5.51	6.43	9.35	6.43	3.03	4.92	3.01	2.36	2.00	NV6S2V1	19.8	H26NRXV4⊙
3"	See K Series											

⊙ Voltage: A = 120 VAC; B = 24 VDC; E = 24 VAC; F = 12 VDC.

26 VALVE FEATURES

- Full port 316 stainless steel body and ball.
- RPTFE seats and seals.
- NPT threaded end connection.
- Temperature range: -30°F to 400°F.
- Pressure range: 29 inHg vacuum to 2000 PSI: 1/4" to 1",
29 inHg vacuum to 1500 PSI: 1-1/4" to 2",
29 inHg vacuum to 1000 PSI: 2-1/2" to 3".

ELECTRIC ACTUATOR FEATURES

- V Series electric actuator.
- NEMA 4, 4X.
- Voltages available: 120 VAC, 220 VAC, 24 VAC, 12 VDC, 24 VDC.
- Duty cycle: 25% at 120 VAC (EV1), 75% at 120 VAC (EV3, NV6),
100% at DC units.
- ISO 5211 universal mounting.
- Manual override.
- Permanent lubrication.
- Visual position indicator.
- Temperature range: 0°F to 160°F.

36 Series

Stainless Steel 2-way Full Port Ball Valve

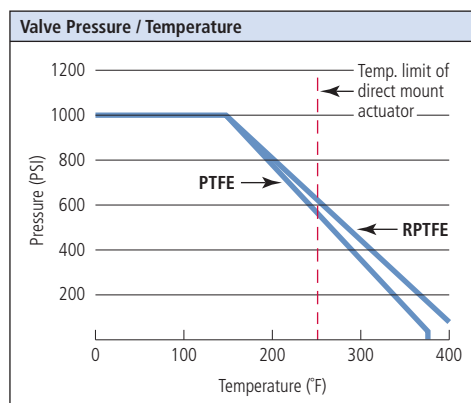
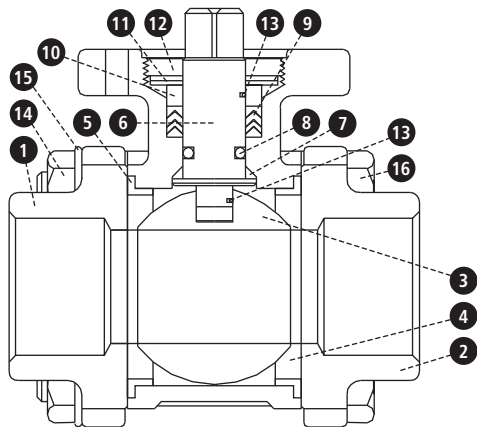


The 36 is a full port, 316 stainless steel, 3 piece ball valve. It is available with threaded ends (36N), socket weld ends (36S), or quick clamp ends with cavity filler seats (36CPF). It can be equipped with a manual handle or with pneumatic or electric actuators.

A full range of accessory items are available including limit switches, solenoid valves, positioners and manual override devices.

FEATURES

- Silicone free.
- Full port for unobstructed flow.
- Live-loaded pyramidal stem seal design.
- Quick quarter-turn rotation.
- High cycle stem design.
- Integrated mounting pad for actuators.
- Compact assembly.
- Complete line of accessories.



ACTUATOR CONFIGURATIONS

- Electric.
- Pneumatic (spring return).
- Pneumatic (double acting).
- Manual handle.

PRESSURE RANGE

29 inHg vacuum to 1000 PSI

TEMPERATURE RANGE

-30°F to 380°F

TYPICAL APPLICATIONS

- Air drying equipment.
- Sterilizers and autoclaves.
- Pollution control equipment.
- Process control applications.
- Laundry equipment.
- Textile dyeing and drying.
- Bottling and dispensing.
- Ink and paint dispensing.
- Industrial compressors.
- Chemical process industry.
- Pharmaceutical chemical industry.

MATERIALS OF CONSTRUCTION

Part	Qty.	Description	Standard Material
1	1	Body	1.4408 or 1.0619
2	2	End Cap	1.4408 or 1.0619
3	1	Ball	316 Stainless Steel
4	2	Seat	RPTFE (PTFE upon request)
5	2	Body Gasket	PTFE
6	1	Stem	316 Stainless Steel
7	1	Pyramidal Stem Seal	PTFE
8	1	O-Ring	Viton®
9	varies	V-Ring Stem Packing	PTFE
10	1	Gland	304 Stainless Steel
11	2	Belleville Washer	301 Stainless Steel
12	1	Disc Plate	304 Stainless Steel
13	2	Anti-Static Device	316 Stainless Steel
14	varies	Body Nut	ISO-3506 (A2-70)
15	varies	Body Washer	ISO-3506 (A2-70)
16	varies	Body Bolt	ISO-3506 (A2-70)

CV FACTORS

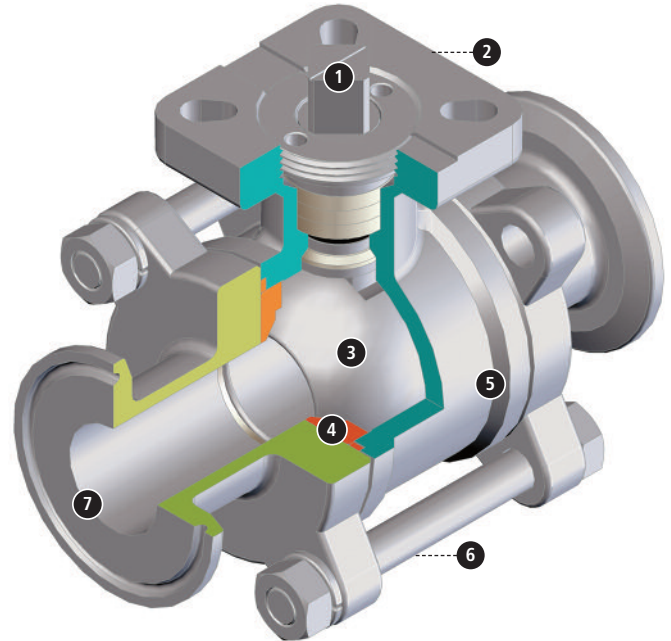
Size	CV (N & S)	CV (C)
1/4"	13	-
3/8"	13	-
1/2"	23	13
3/4"	70	23
1"	116	88
1-1/4"	151	-
1-1/2"	197	168
2"	325	290
3"	901	-

36 Series

Stainless Steel 2-way Full Port Ball Valve (Cutaway View)

PARTS & FEATURES

- 1. Stem:** The 36 sturdy blow-out proof stem is designed for direct mounting of actuator that meets ISO5211 specifications. Stem top is drilled for optional installation of handle for manual operation.
- 2. Mounting Pad:** Two sets of ISO5211 mounting patterns are available to accommodate a great range of actuators. Machined flat surface ensures correct alignment of actuator to the stem top for minimum side loading during operation.
- 3. Ball:** Precision machined and polished to a mirror finish for bubble tight shut-off. Each Ball is designed to have minimum torque and provides high cycle life.
- 4. Seat and Gasket Set:** The 36 ball seat is set inside our heavy-duty gasket ensuring sealing integrity of the valve body. Elasticity of the seat-gasket union enables a bubble tight shut-off at every level of rated pressure range.
- 5. Body:** Three-piece swing out design enables in line maintenance of the ball valve.
- 6. Body Bolting:** Heavy body bolts made of 304 S/S is standard.
- 7. End Connections:** Various end connections are available (NPT, socket weld, and tri-clamp).

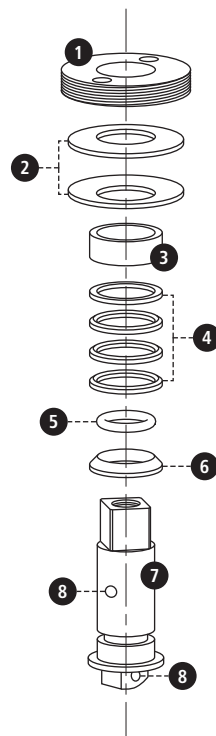


HIGH CYCLE STEM DESIGN FEATURES

- **Live Loading Stem Sealing (Disc Plate and Belleville Washer):** The disc plate uniformly compresses the pair of Belleville washers to store energy for live loading. Live loading extends the time required between maintenance. During high cycle operation, the system works independently to maintain sealing integrity.
- **Independent Stem Rotation:** The rotational movement of the stem is independent of disc plate and Belleville washers (the live loading system). The action of stem rotation does not disrupt the sealing tightness of the disc plate.
- **Anti-Static Device:** To eliminate the possibility of static electrical charges within the valve, two grounding connections are set in the stem to ensure electrical continuity for the entire ball valve.

Three stages of stem sealing for effective control of stem leakage:

- **Pyramidal Body and Stem Seal (1st Stage):** Internal pressure of the valve pushes the pyramidal stem sealing upward. Because of its shape, the sealing expands to fill all the air pockets that might become a potential leakage path in the lower stem area.
- **Viton® O-Ring (2nd Stage):** The elastic nature of the Viton® O-Ring serves as an effective sealing for gaseous medium that might escape the 1st stage sealing.
- **V-Ring Stem Packing (3rd Stage):** Live loading action of the Bellville washer expands the V-Ring stem packing, filling all the air pockets in the outer stem area. It effectively seals internal media within as well as keeping external media from entering the system.

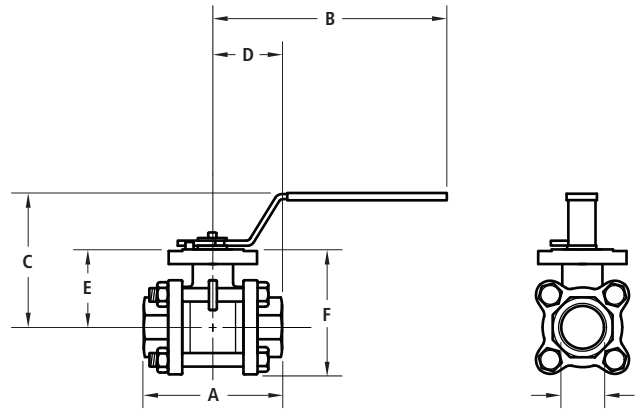


PARTS

1. Disc Plate
2. Belleville Washers
3. Gland
4. V-Ring Stem Packing
5. O-Ring
6. Pyramidal Stem Seal
7. Stem
8. Anti-Static Device

36_RXM Series

Stainless steel 2-way full port ball valve with manual handle
 (Threaded ends (36N) or socket weld ends (36S))



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	C	D	E	F	I	Wt. (lbs.)	Model No.
1/4"	2.56	5.14	3.00	1.28	1.65	2.42	.453	1.2	A36○RXM
3/8"	2.56	5.14	3.00	1.28	1.65	2.42	.500	1.2	B36○RXM
1/2"	2.95	5.14	3.00	1.47	1.65	2.42	.591	1.2	C36○RXM
3/4"	3.15	5.14	3.16	1.57	1.77	2.65	.787	1.4	D36○RXM
1"	3.54	7.50	3.75	1.77	2.05	3.13	.984	2.8	E36○RXM
1-1/4"	4.33	7.50	3.75	2.16	2.28	3.55	1.260	3.7	F36○RXM
1-1/2"	4.72	8.10	4.54	2.36	2.68	4.25	1.575	5.8	G36○RXM
2"	5.51	8.10	4.54	2.75	3.03	4.92	1.970	8.8	H36○RXM
3"	8.07	11.85	6.72	4.03	4.37	7.25	3.152	12.5	J36○RXM

○ End Connections: **N** = Threaded; **S** = Socket weld.

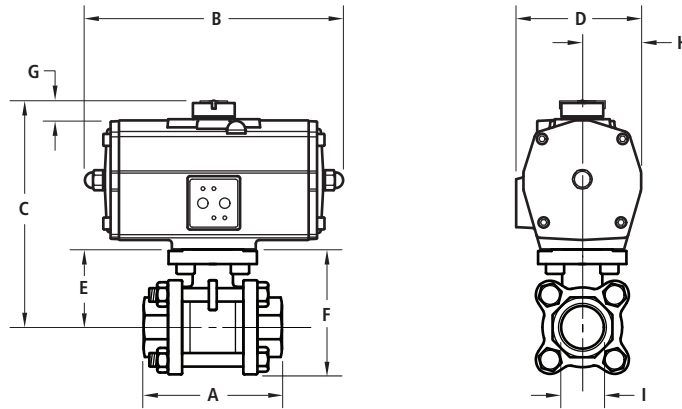
36 VALVE FEATURES

- Full port 316 stainless steel body and ball.
- PTFE & RPTFE seats and seals, PTFE stem seals.
- Investment cast body.
- Live loaded pyramidal stem seals.
- 3 piece design with threaded or socket weld ends.
- Temperature range: -30°F to 380°F.
- Pressure range: 29 inHg vacuum to 1000 PSI.

36_RXEDA Series

Stainless steel 2-way full port ball valve with double acting pneumatic actuator

(Threaded ends (36N) or socket weld ends (36S), actuators are sized for 300 PSI pressure differential)



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	C	D	E	F	G	H	I	Actuator	Wt. (lbs.)	Model No.
80 psig Minimum Actuator Air Supply = 8D												
1/4"	2.56	6.26	5.59	3.26	1.65	2.62	.79	1.46	.453	ED25	4.0	A36○RXE8D
3/8"	2.56	6.26	5.59	3.26	1.65	2.62	.79	1.46	.500	ED25	4.0	B36○RXE8D
1/2"	2.95	6.26	5.59	3.26	1.65	2.62	.79	1.46	.591	ED25	4.1	C36○RXE8D
3/4"	3.15	6.26	5.71	3.26	1.77	2.82	.79	1.46	.787	ED25	4.3	D36○RXE8D
1"	3.54	6.26	5.99	3.26	2.05	3.26	.79	1.46	.984	ED25	5.7	E36○RXE8D
1-1/4"	4.33	7.09	6.73	3.78	2.28	3.70	.79	1.70	1.260	ED40	7.7	F36○RXE8D
1-1/2"	4.72	7.09	7.13	3.78	2.68	4.30	.79	1.70	1.575	ED40	9.8	G36○RXE8D
2"	5.51	7.83	7.95	4.19	3.03	4.98	.79	1.93	1.970	ED65	14.1	H36○RXE8D
3"	8.07	11.14	10.79	5.39	4.37	7.75	.79	2.52	3.152	ED200	25.3	J36○RXE8D
60 psig Minimum Actuator Air Supply = 6D												
1/4"	2.56	6.26	5.59	3.26	1.65	2.62	.79	1.46	.453	ED25	4.0	A36○RXE6D
3/8"	2.56	6.26	5.59	3.26	1.65	2.62	.79	1.46	.500	ED25	4.0	B36○RXE6D
1/2"	2.95	6.26	5.59	3.26	1.65	2.62	.79	1.46	.591	ED25	4.1	C36○RXE6D
3/4"	3.15	6.26	5.71	3.26	1.77	2.82	.79	1.46	.787	ED25	4.3	D36○RXE6D
1"	3.54	6.26	6.50	3.78	2.05	3.26	.79	1.70	.984	ED40	6.8	E36○RXE6D
1-1/4"	4.33	7.09	6.73	3.78	2.28	3.70	.79	1.70	1.260	ED40	7.7	F36○RXE6D
1-1/2"	4.72	7.83	7.60	4.19	2.68	4.30	.79	1.93	1.575	ED65	11.0	G36○RXE6D
2"	5.51	8.70	8.43	4.60	3.03	4.98	.79	2.12	1.970	ED100	15.6	H36○RXE6D
3"	8.07	11.14	10.79	5.39	4.37	7.75	.79	2.52	3.152	ED200	25.3	J36○RXE6D

○ End Connections: **N** = Threaded; **S** = Socket weld.

36 VALVE FEATURES

- Full port 316 stainless steel body and ball.
- PTFE & RPTFE seats and seals, PTFE stem seals.
- Investment cast body.
- Live loaded pyramidal stem seals.
- 3 piece design with threaded or socket weld ends.
- Temperature range: -30°F to 380°F.
- Pressure range: 29 inHg vacuum to 1000 PSI.

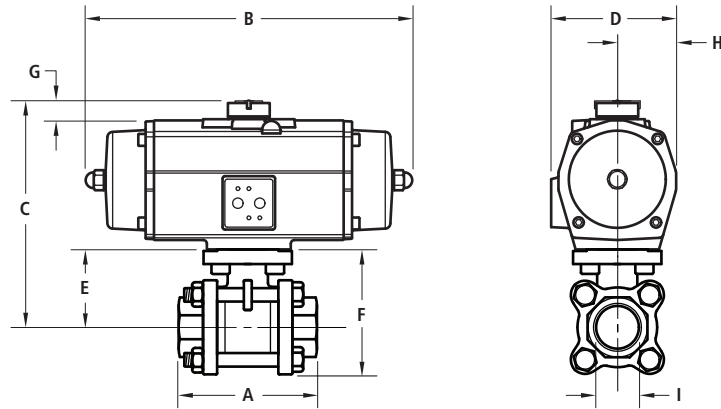
PNEUMATIC ACTUATOR FEATURES

- E Series double acting rack and pinion actuator.
- Corrosion resistant coating.
- NAMUR solenoid mounting pad, ISO 5211 mounting standard.
- Visual position indicators.
- High duty cycle.
- Permanent lubrication.
- Temperature range: -4°F to 175°F.

36_RXESR Series

Stainless steel 2-way full port ball valve with spring return pneumatic actuator

(Threaded ends (36N) or socket weld ends (36S), actuators are sized for 300 PSI pressure differential)



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	C	D	E	F	G	H	I	Actuator	Wt. (lbs.)	Model No.
80 psig Minimum Actuator Air Supply = 85												
1/4"	2.56	6.77	5.59	3.26	1.65	2.62	.79	1.46	.453	ES25-4	4.9	A36○RXE8S
3/8"	2.56	6.77	5.59	3.26	1.65	2.62	.79	1.46	.500	ES25-4	4.9	B36○RXE8S
1/2"	2.95	6.77	5.59	3.26	1.65	2.62	.79	1.46	.591	ES25-4	4.9	C36○RXE8S
3/4"	3.15	6.77	5.71	3.78	1.77	2.82	.79	1.46	.787	ES25-4	5.1	D36○RXE8S
1"	3.54	8.03	6.50	3.78	2.05	3.26	.79	1.70	.984	ES40-4	8.0	E36○RXE8S
1-1/4"	4.33	8.03	6.73	3.78	2.28	3.70	.79	1.70	1.260	ES40-4	9.0	F36○RXE8S
1-1/2"	4.72	9.80	7.60	4.19	2.68	4.30	.79	1.93	1.575	ES65-4	13.7	G36○RXE8S
2"	5.51	14.17	9.45	5.39	3.03	4.98	.79	2.52	1.970	ES200-4	28.9	H36○RXE8S
3"	8.07	15.24	12.29	7.12	4.37	7.75	.79	3.41	3.152	ES350-4	49.8	J36○RXE8S
60 psig Minimum Actuator Air Supply = 65												
1/4"	2.56	5.12	5.59	3.26	1.65	2.62	.79	1.46	.453	ES25-4	4.9	A36○RXE6S
3/8"	2.56	5.12	5.59	3.26	1.65	2.62	.79	1.46	.500	ES25-4	4.9	B36○RXE6S
1/2"	2.95	5.12	5.59	3.26	1.65	2.62	.79	1.46	.591	ES25-4	4.9	C36○RXE6S
3/4"	3.15	8.03	6.22	3.78	1.77	2.82	.79	1.70	.787	ES40-4	6.8	D36○RXE6S
1"	3.54	9.80	6.97	4.19	2.05	3.26	.79	1.93	.984	ES65-4	10.7	E36○RXE6S
1-1/4"	4.33	9.80	7.20	4.19	2.28	3.70	.79	1.93	1.260	ES65-4	11.6	F36○RXE6S
1-1/2"	4.72	10.51	8.12	4.60	2.68	4.30	.79	2.12	1.575	ES100-4	15.9	G36○RXE6S
2"	5.51	14.17	9.45	5.39	3.03	4.98	.79	2.52	1.970	ES200-4	28.9	H36○RXE6S
3"	8.07	15.24	12.29	7.12	4.37	7.75	.79	3.41	3.152	ES350-4	49.8	J36○RXE6S

○ End Connections: **N** = Threaded; **S** = Socket weld.

36 VALVE FEATURES

- Full port 316 stainless steel body and ball.
- PTFE & RPTFE seats and seals, PTFE stem seals.
- Investment cast body.
- Live loaded pyramidal stem seals.
- 3 piece design with threaded or socket weld ends.
- Temperature range: -30°F to 380°F.
- Pressure range: 29 inHg vacuum to 1000 PSI.

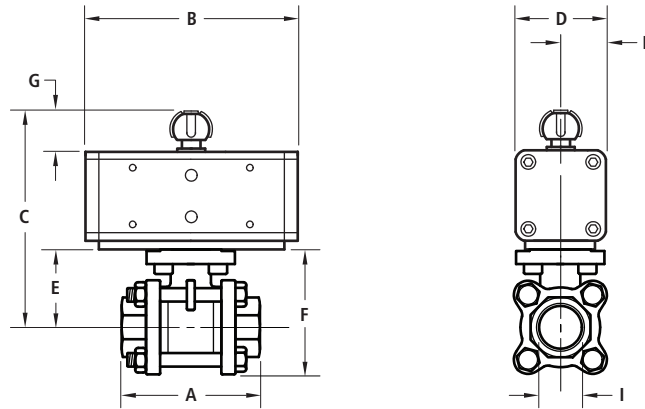
PNEUMATIC ACTUATOR FEATURES

- E Series spring return rack and pinion actuator.
- Corrosion resistant coating.
- NAMUR solenoid mounting pad, ISO 5211 mounting standard.
- Visual position indicators.
- High duty cycle.
- Permanent lubrication.
- Temperature range: -4°F to 175°F.

36_RXODA Series

Stainless steel 2-way full port ball valve with double acting pneumatic actuator

(Threaded ends (36N) or socket weld ends (36S), actuators are sized for 300 PSI pressure differential)



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	C	D	E	F	G	H	I	Actuator	Wt. (lbs.)	Model No.
80 psig Minimum Actuator Air Supply = 8D												
1/4"	2.56	5.12	4.80	2.16	1.65	2.62	.79	1.08	.453	PD030	3.3	A36○RX08D
3/8"	2.56	5.12	4.80	2.16	1.65	2.62	.79	1.08	.500	PD030	3.3	B36○RX08D
1/2"	2.95	5.12	4.80	2.16	1.65	2.62	.79	1.08	.591	PD030	3.4	C36○RX08D
3/4"	3.15	5.12	5.31	2.16	1.77	2.82	.79	1.08	.787	PD030	3.7	D36○RX08D
1"	3.54	5.67	5.42	2.36	2.05	3.26	.79	1.18	.984	PD045	5.5	E36○RX08D
1-1/4"	4.33	5.67	5.65	2.36	2.28	3.70	.79	1.18	1.260	PD045	6.5	F36○RX08D
1-1/2"	4.72	6.65	6.52	2.83	2.68	4.30	.79	1.41	1.575	PD090	9.8	G36○RX08D
2"	5.51	6.65	6.87	2.83	3.03	4.98	.79	1.41	1.970	PD090	12.9	H36○RX08D
3"	8.07	8.35	9.33	3.54	4.37	7.75	1.18	1.77	3.152	PD180	20.0	J36○RX08D
60 psig Minimum Actuator Air Supply = 6D												
1/4"	2.56	5.12	4.80	2.16	1.65	2.62	.79	1.08	.453	PD030	3.3	A36○RX06D
3/8"	2.56	5.12	4.80	2.16	1.65	2.62	.79	1.08	.500	PD030	3.3	B36○RX06D
1/2"	2.95	5.12	4.80	2.16	1.65	2.62	.79	1.08	.591	PD030	3.4	C36○RX06D
3/4"	3.15	5.12	5.31	2.16	1.77	2.82	.79	1.08	.787	PD030	3.7	D36○RX06D
1"	3.54	5.67	5.42	2.36	2.05	3.26	.79	1.18	.984	PD045	5.5	E36○RX06D
1-1/4"	4.33	5.98	5.82	2.56	2.28	3.70	.79	1.28	1.260	PD060	7.1	F36○RX06D
1-1/2"	4.72	6.65	6.52	2.83	2.68	4.30	.79	1.41	1.575	PD090	9.8	G36○RX06D
2"	5.51	7.24	7.59	3.15	3.03	4.98	1.18	1.57	1.970	PD120	15.0	H36○RX06D
3"	8.07	9.53	9.72	3.94	4.37	7.75	1.18	1.97	3.152	PD240	24.2	J36○RX06D

○ End Connections: **N** = Threaded; **S** = Socket weld.

36 VALVE FEATURES

- Full port 316 stainless steel body and ball.
- PTFE & RPTFE seats and seals, PTFE stem seals.
- Investment cast body.
- Live loaded pyramidal stem seals.
- 3 piece design with threaded or socket weld ends.
- Temperature range: -30°F to 380°F.
- Pressure range: 29 inHg vacuum to 1000 PSI.

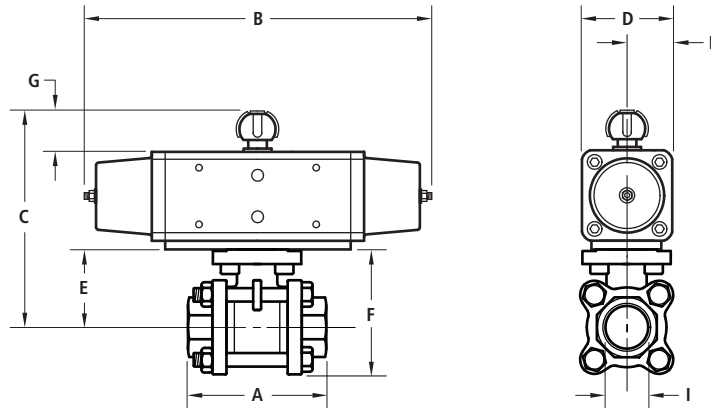
PNEUMATIC ACTUATOR FEATURES

- O Series double acting pneumatic actuator.
- Corrosion resistant coating.
- NAMUR solenoid mounting pad, ISO 5211 mounting standard.
- Visual position indicators.
- High duty cycle.
- Permanent lubrication.
- Temperature range: -4°F to 175°F.

36_RXOSR Series

Stainless steel 2-way full port ball valve with spring return pneumatic actuator

(Threaded ends (36N) or socket weld ends (36S), actuators are sized for 300 PSI pressure differential)



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	C	D	E	F	G	H	I	Actuator	Wt. (lbs.)	Model No.
80 psig Minimum Actuator Air Supply = 85												
1/4"	2.56	8.71	4.80	2.16	1.65	2.62	.79	1.08	.453	PS015	4.1	A36○RX08S
3/8"	2.56	8.71	4.80	2.16	1.65	2.62	.79	1.08	.500	PS015	4.1	B36○RX08S
1/2"	2.95	8.71	4.80	2.16	1.65	2.62	.79	1.08	.591	PS015	4.1	C36○RX08S
3/4"	3.15	9.45	5.31	2.56	1.77	2.82	.79	1.28	.787	PS030	5.9	D36○RX08S
1"	3.54	11.58	5.42	2.83	2.05	3.26	.79	1.41	.984	PS045	8.1	E36○RX08S
1-1/4"	4.33	11.58	5.65	2.83	2.28	3.70	1.18	1.41	1.260	PS045	9.0	F36○RX08S
1-1/2"	4.72	12.60	6.52	3.15	2.68	4.30	1.18	1.57	1.575	PS060	13.4	G36○RX08S
2"	5.51	14.06	6.78	3.54	3.03	4.98	1.18	1.77	1.970	PS090	18.9	H36○RX08S
3"	8.07	17.18	9.33	4.41	4.37	7.75	1.18	2.20	3.152	PS180	33.2	J36○RX08S
60 psig Minimum Actuator Air Supply = 65												
1/4"	2.56	9.45	4.80	2.56	1.65	2.62	.79	1.28	.453	PS030	5.5	A36○RX06S
3/8"	2.56	9.45	4.80	2.56	1.65	2.62	.79	1.28	.500	PS030	5.5	B36○RX06S
1/2"	2.95	9.45	4.80	2.56	1.65	2.62	.79	1.28	.591	PS030	5.6	C36○RX06S
3/4"	3.15	9.45	5.31	2.56	1.77	2.82	.79	1.28	.787	PS030	5.9	D36○RX06S
1"	3.54	12.60	5.42	3.15	2.05	3.26	1.18	1.57	.984	PS060	10.4	E36○RX06S
1-1/4"	4.33	12.60	5.82	3.15	2.28	3.70	1.18	1.57	1.260	PS060	11.4	F36○RX06S
1-1/2"	4.72	14.06	6.52	3.54	2.68	4.30	1.18	1.77	1.575	PS090	15.9	G36○RX06S
2"	5.51	14.65	7.59	3.94	3.03	4.98	1.18	1.97	1.970	PS120	23.5	H36○RX06S
3"	8.07	18.12	9.72	4.91	4.37	7.75	1.18	2.27	3.152	PS240	36.7	J36○RX06S

○ End Connections: **N** = Threaded; **S** = Socket weld.

36 VALVE FEATURES

- Full port 316 stainless steel body and ball.
- PTFE & RPTFE seats and seals, PTFE stem seals.
- Investment cast body.
- Live loaded pyramidal stem seals.
- 3 piece design with threaded or socket weld ends.
- Temperature range: -30°F to 380°F.
- Pressure range: 29 inHg vacuum to 1000 PSI.

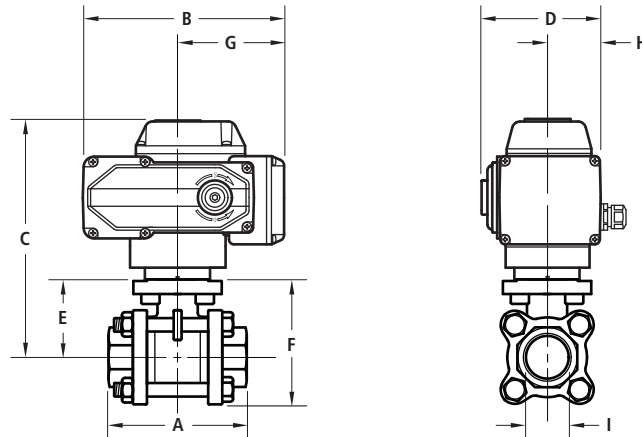
PNEUMATIC ACTUATOR FEATURES

- O Series spring return pneumatic actuator.
- Corrosion resistant coating.
- NAMUR solenoid mounting pad, ISO 5211 mounting standard.
- Visual position indicators.
- High duty cycle.
- Permanent lubrication.
- Temperature range: -4°F to 175°F.

36_RXK4 Series

Stainless steel 2-way full port ball valve with electric actuator, NEMA 4, 4X

(Threaded ends (36N) or socket weld ends (36S), actuators are sized for 300 PSI pressure differential)



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	C	D	E	F	G	H	I	Actuator	Wt. (lbs.)	Model No.
1/4"	2.56	8.17	8.09	4.82	1.65	2.62	4.43	2.14	.453	KOUNIC10A-ISO	11.1	A36⊙RXK4A
3/8"	2.56	8.17	8.09	4.82	1.65	2.62	4.43	2.14	.500	KOUNIC10A-ISO	11.1	B36⊙RXK4A
1/2"	2.95	8.17	8.09	4.82	1.65	2.62	4.43	2.14	.591	KOUNIC10A-ISO	11.2	C36⊙RXK4A
3/4"	3.15	8.17	8.21	4.82	1.77	2.82	4.43	2.14	.787	KOUNIC10A-ISO	11.4	D36⊙RXK4A
1"	3.54	8.17	8.49	4.82	2.05	3.26	4.43	2.14	.984	KOUNIC10A-ISO	12.8	E36⊙RXK4A
1-1/4"	4.33	8.17	8.72	4.82	2.28	3.70	4.43	2.14	1.260	KOUNIC10A-ISO	13.7	F36⊙RXK4A
1-1/2"	4.72	8.17	9.12	4.82	2.68	4.30	4.43	2.14	1.575	KOUNIC10A-ISO	15.8	G36⊙RXK4A
2"	5.51	8.17	9.47	4.82	3.03	4.98	4.43	2.14	1.970	KOUNIC10A-ISO	18.8	H36⊙RXK4A
3"	8.07	10.10	11.65	6.16	4.37	7.75	5.25	2.46	3.152	KOUNIC20A-ISO	30.5	J36⊙RXK4A

⊙ End Connections: **N** = Threaded; **S** = Socket weld.

36 VALVE FEATURES

- Full port 316 stainless steel body and ball.
- PTFE & RPTFE seats and seals, PTFE stem seals.
- Investment cast body.
- Live loaded pyramidal stem seals.
- 3 piece design with threaded or socket weld ends.
- Temperature range: -30°F to 380°F.
- Pressure range: 29 inHg vacuum to 1000 PSI.

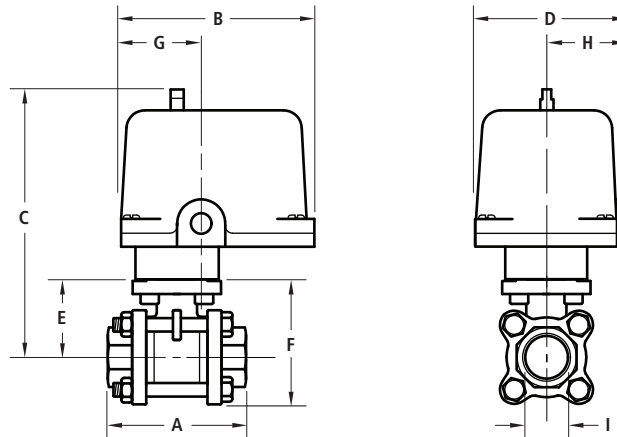
ELECTRIC ACTUATOR FEATURES

- K Series electric actuator.
- Most voltages available.
- Quarter turn: 0-90° rotation.
- NEMA 4/4X certified by UL labs.
- ISO 5211 mounting standard.
- Visual position indicators.
- Self-locking drive train.
- Mounts in any direction.
- 1/2" NPT conduit connection.
- CSA-NRTL/C and CE certified.
- Temperature range: 0°F to 160°F.

36_RXR4 Series

Stainless steel 2-way full port ball valve with electric actuator, NEMA 4, 4X

(Threaded ends (36N) or socket weld ends (36S), actuators are sized for 300 PSI pressure differential)



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	C	D	E	F	G	H	I	Actuator	Wt. (lbs.)	Model No.
1/4"	2.56	5.95	7.70	4.40	1.65	2.62	2.48	2.20	.453	R150 (5 sec.)	5.1	A36⊙RXR4⊙
3/8"	2.56	5.95	7.70	4.40	1.65	2.62	2.48	2.20	.500	R150 (5 sec.)	5.1	B36⊙RXR4⊙
1/2"	2.95	5.95	7.70	4.40	1.65	2.62	2.48	2.20	.591	R150 (5 sec.)	5.2	C36⊙RXR4⊙
3/4"	3.15	5.95	7.82	4.40	1.77	2.82	2.48	2.20	.787	R150 (5 sec.)	5.4	D36⊙RXR4⊙
1"	3.54	5.95	8.10	4.40	2.05	3.26	2.48	2.20	.984	R300 (9 sec.)	8.8	E36⊙RXR4⊙
1-1/4"	4.33	5.95	8.33	4.40	2.28	3.70	2.48	2.20	1.260	R300 (9 sec.)	9.7	F36⊙RXR4⊙
1-1/2"	4.72	5.95	8.73	4.40	2.68	4.30	2.48	2.20	1.575	R600 (16 sec.)	11.8	G36⊙RXR4⊙
2"	5.51	5.95	9.08	4.40	3.03	4.98	2.48	2.20	1.970	R600 (16 sec.)	14.8	H36⊙RXR4⊙
3"	See K Series											

⊙ End Connections: **N** = Threaded; **S** = Socket weld. ⊙ Voltage: **A** = 120 VAC; **B** = 24 VDC; **F** = 12 VDC.

36 VALVE FEATURES

- Full port 316 stainless steel body and ball.
- PTFE & RPTFE seats and seals, PTFE stem seals.
- Investment cast body.
- Live loaded pyramidal stem seals.
- 3 piece design with threaded or socket weld ends.
- Temperature range: -30°F to 380°F.
- Pressure range: 29 inHg vacuum to 1000 PSI.

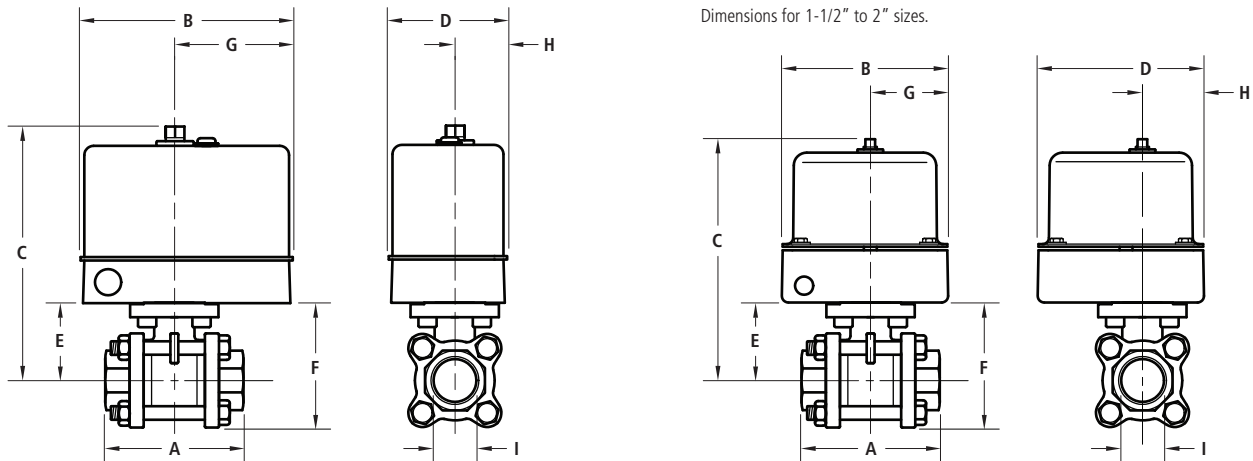
ELECTRIC ACTUATOR FEATURES

- R Series electric actuator.
- NEMA 4, 4X.
- Voltages available: 120 VAC, 12 VDC, 24 VDC.
- Duty cycle: 25% at 120 VAC, 100% at DC units.
- ISO 5211 universal mounting.
- Manual override.
- Permanent lubrication.
- Visual position indicator.
- Temperature range: 0°F to 150°F.

36_RXV4 Series

Stainless steel 2-way full port ball valve with electric actuator, NEMA 4, 4X

(Threaded end connection, 2 piece body, actuators are sized for 300 PSI pressure differential)



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	C	D	E	F	G	H	I	Actuator	Wt. (lbs.)	Model No.
1/4"	2.56	6.50	6.40	3.00	1.65	2.62	3.06	1.38	.453	EV1S1V1	6.2	A36⊙RXV4⊙
3/8"	2.56	6.50	6.40	3.00	1.65	2.62	3.06	1.38	.500	EV1S1V1	6.2	B36⊙RXV4⊙
1/2"	2.95	6.50	6.40	3.00	1.65	2.62	3.06	1.38	.591	EV1S1V1	6.2	C36⊙RXV4⊙
3/4"	3.15	6.50	6.52	3.00	1.77	2.82	3.06	1.38	.787	EV1S1V1	6.4	D36⊙RXV4⊙
1"	3.54	6.50	6.80	3.00	2.05	3.26	3.06	1.38	.984	EV3S2V1	7.8	E36⊙RXV4⊙
1-1/4"	4.33	6.50	7.03	3.00	2.28	3.70	3.06	1.38	1.260	EV3S2V1	8.7	F36⊙RXV4⊙
1-1/2"	4.72	6.43	9.00	6.43	2.68	4.30	3.01	2.36	1.575	NV6S2V1	16.8	G36⊙RXV4⊙
2"	5.51	6.43	9.35	6.43	3.03	4.98	3.01	2.36	1.970	NV6S2V1	19.8	H36⊙RXV4⊙
3"	See K Series											

⊙ End Connections: **N** = Threaded; **S** = Socket weld. ⊙ Voltage: **A** = 120 VAC; **B** = 24 VDC; **F** = 12 VDC.

36 VALVE FEATURES

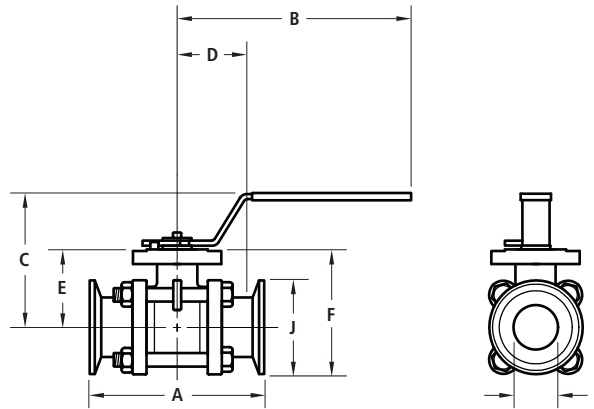
- Full port 316 stainless steel body and ball.
- PTFE & RPTFE seats and seals, PTFE stem seals.
- Investment cast body.
- Live loaded pyramidal stem seals.
- 3 piece design with threaded or socket weld ends.
- Temperature range: -30°F to 380°F.
- Pressure range: 29 inHg vacuum to 1000 PSI.

ELECTRIC ACTUATOR FEATURES

- V Series electric actuator.
- NEMA 4, 4X.
- Voltages available: 120 VAC, 220 VAC, 24 VAC, 12 VDC, 24 VDC.
- Duty cycle: 25% at 120 VAC (EV1), 75% at 120 VAC (EV3, NV6), 100% at DC units.
- ISO 5211 universal mounting.
- Manual override.
- Permanent lubrication.
- Visual position indicator.
- Temperature range: 0°F to 160°F.

36CPFRXM Series

Stainless steel 2-way full port ball valve with manual handle
(Quick Clamp end connections and cavity filler seats)



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	C	D	E	F	I	J	Wt. (lbs.)	Model No.
1/2"	3.66	4.93	3.03	1.83	1.58	2.58	.378	.98	1.0	C36CPFRXM
3/4"	4.14	4.93	3.15	2.07	1.73	2.82	.626	.98	1.0	D36CPFRXM
1"	4.49	5.52	3.78	2.24	2.05	3.30	.875	1.98	3.0	E36CPFRXM
1-1/2"	4.89	7.88	4.57	2.49	2.68	4.32	1.375	1.98	6.0	G36CPFRXM
2"	5.71	7.88	4.88	2.85	3.03	5.03	1.872	2.52	10.0	H36CPFRXM
3"	7.60	9.85	7.13	3.80	4.33	7.40	2.872	3.54	28.0	J36CPFRXM
4"	9.30	9.85	7.88	4.65	5.44	8.95	3.837	4.68	44.0	K36CPFRXM

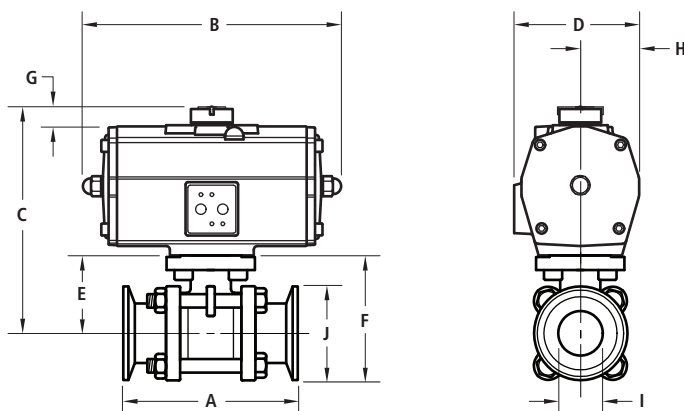
36 VALVE FEATURES

- Full port 316 stainless steel body and ball.
- PTFE seats, cavity fillers and stem seals.
- Investment cast body.
- Live loaded pyramidal stem seals.
- 3 piece design with Quick Clamp ends.
- Temperature range: -30°F to 380°F.
- Pressure range: 29 inHg vacuum to 1000 PSI.
- Surface Finish: 180 grit and Ra of 24u-in.

36CPFRXEDA Series

Stainless steel 2-way full port ball valve with double acting pneumatic actuator

(Quick Clamp end connections and cavity filler seats, actuators are sized for 300 PSI pressure differential)



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	C	D	E	F	G	H	I	J	Actuator	Wt. (lbs.)	Model No.
80 PSI Minimum Actuator Air Supply = 8D													
1/2"	3.66	6.26	5.52	3.26	1.58	2.58	.79	1.46	.378	.98	ED25	3.9	C36CPFRXE8D
3/4"	4.14	6.26	5.67	3.26	1.73	2.82	.79	1.46	.626	.98	ED25	3.9	D36CPFRXE8D
1"	4.49	7.83	6.97	4.19	2.05	3.30	.79	1.93	.875	1.98	ED65	8.3	E36CPFRXE8D
1-1/2"	4.89	7.83	7.60	4.19	2.68	4.32	.79	1.93	1.375	1.98	ED65	11.3	G36CPFRXE8D
2"	5.71	7.83	7.95	4.19	3.03	5.03	.79	1.93	1.875	2.52	ED65	15.3	H36CPFRXE8D
3"	7.56	11.14	10.75	5.39	4.33	7.40	.79	2.52	2.875	3.54	ED200	40.8	J36CPFRXE8D
4"	9.30	12.01	13.36	7.12	5.44	8.95	.79	3.41	3.837	4.68	ED350	66.9	K36CPFRXE8D
60 PSI Minimum Actuator Air Supply = 6D													
1/2"	3.66	6.26	5.52	3.26	1.58	2.58	.79	1.46	.378	.98	ED25	3.9	C36CPFRXE6D
3/4"	4.14	6.26	5.67	3.26	1.73	2.82	.79	1.46	.626	.98	ED25	3.9	D36CPFRXE6D
1"	4.49	7.83	6.97	4.19	2.05	3.30	.79	1.93	.875	1.98	ED65	8.3	E36CPFRXE6D
1-1/2"	4.89	8.70	8.12	4.60	2.68	4.32	.79	2.12	1.375	1.98	ED100	12.8	G36CPFRXE6D
2"	5.71	8.70	8.47	4.60	3.03	5.03	.79	2.12	1.875	2.52	ED100	16.8	H36CPFRXE6D
3"	7.56	11.14	10.75	5.39	4.33	7.40	.79	2.52	2.875	3.54	ED200	40.8	J36CPFRXE6D
4"	9.30	12.01	13.36	7.12	5.44	8.95	.79	3.41	3.837	4.68	ED350	66.9	K36CPFRXE6D

36 VALVE FEATURES

- Full port 316 stainless steel body and ball.
- PTFE seats, cavity fillers and stem seals.
- Investment cast body.
- Live loaded pyramidal stem seals.
- 3 piece design with Quick Clamp ends.
- Temperature range: -30°F to 380°F.
- Pressure range: 29 inHg vacuum to 1000 PSI.
- Surface Finish: 180 grit and Ra of 24u-in.

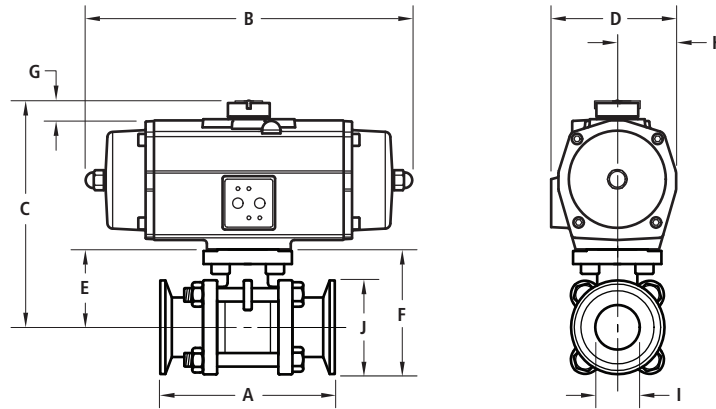
PNEUMATIC ACTUATOR FEATURES

- E Series double acting rack and pinion actuator.
- Corrosion resistant coating.
- NAMUR solenoid mounting pad, ISO 5211 mounting standard.
- Visual position indicators.
- High duty cycle.
- Permanent lubrication.
- Temperature range: -4°F to 175°F.

36CPFRXESR Series

Stainless steel 2-way full port ball valve with spring return pneumatic actuator

(Quick Clamp end connections and cavity filler seats, actuators are sized for 300 PSI pressure differential)



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	C	D	E	F	G	H	I	J	Actuator	Wt. (lbs.)	Model No.
80 PSI Minimum Actuator Air Supply = 8S													
1/2"	3.66	6.77	5.52	3.26	1.58	2.58	.79	1.46	.378	.98	ES25	4.7	C36CPFRXE8S
3/4"	4.14	8.03	6.18	3.78	1.73	2.82	.79	1.70	.626	.98	ES40	6.3	D36CPFRXE8S
1"	4.49	10.51	7.49	4.60	2.05	3.30	.79	2.12	.875	1.98	ES100	13.1	E36CPFRXE8S
1-1/2"	4.89	14.17	9.10	5.39	2.68	4.32	.79	2.52	1.375	1.98	ES200	26.1	G36CPFRXE8S
2"	5.71	14.17	9.45	5.39	3.03	5.03	.79	2.52	1.875	2.52	ES200	30.1	H36CPFRXE8S
3"	7.56	15.24	12.25	7.12	4.33	7.40	.79	3.41	2.875	3.54	ES350	65.3	J36CPFRXE8S
4"	9.30	18.78	15.28	8.52	5.44	8.95	.79	4.08	3.837	4.68	ES600	104.8	K36CPFRXE8S
60 PSI Minimum Actuator Air Supply = 6S													
1/2"	3.66	8.03	6.03	3.78	1.58	2.58	.79	1.70	.378	.98	ES40	6.3	C36CPFRXE6S
3/4"	4.14	8.03	6.18	3.78	1.73	2.82	.79	1.70	.626	.98	ES40	6.3	D36CPFRXE6S
1"	4.49	14.17	8.47	5.39	2.05	3.30	.79	1.93	.875	1.98	ES200	23.1	E36CPFRXE6S
1-1/2"	4.89	14.17	9.10	5.39	2.68	4.32	.79	2.52	1.375	1.98	ES200	26.1	G36CPFRXE6S
2"	5.71	14.17	9.45	5.39	3.03	5.03	.79	2.52	1.875	2.52	ES200	30.1	H36CPFRXE6S
3"	7.56	15.24	12.25	7.12	4.33	7.40	.79	3.41	2.875	3.54	ES350	65.3	J36CPFRXE6S
4"	9.30	18.78	15.28	8.52	5.44	8.95	.79	4.08	3.837	4.68	ES600	104.8	K36CPFRXE6S

36 VALVE FEATURES

- Full port 316 stainless steel body and ball.
- PTFE seats, cavity fillers and stem seals.
- Investment cast body.
- Live loaded pyramidal stem seals.
- 3 piece design with Quick Clamp ends.
- Temperature range: -30°F to 380°F.
- Pressure range: 29 inHg vacuum to 1000 PSI.
- Surface Finish: 180 grit and Ra of 24u-in.

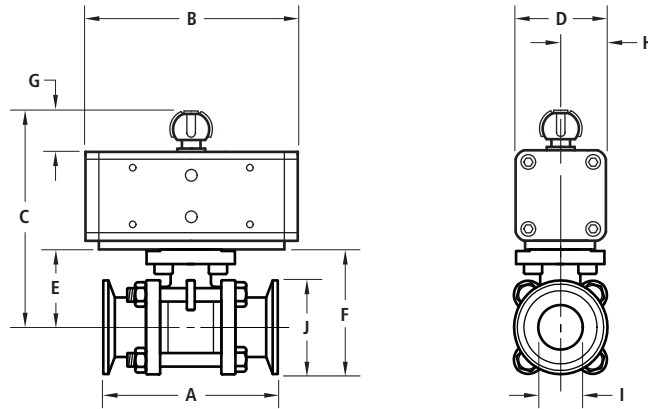
PNEUMATIC ACTUATOR FEATURES

- E Series spring return rack and pinion actuator.
- Corrosion resistant coating.
- NAMUR solenoid mounting pad, ISO 5211 mounting standard.
- Visual position indicators.
- High duty cycle.
- Permanent lubrication.
- Temperature range: -4°F to 175°F.

36CPFRXODA Series

Stainless steel 2-way full port ball valve with double acting pneumatic actuator

(Quick Clamp end connections and cavity filler seats, actuators are sized for 300 PSI pressure differential)



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	C	D	E	F	G	H	I	J	Actuator	Wt. (lbs.)	Model No.
80 PSI Minimum Actuator Air Supply = 8D													
1/2"	3.66	5.12	4.73	2.16	1.58	2.58	.79	1.08	.378	.98	PD030	3.2	C36CPFRXO8D
3/4"	4.14	5.12	4.88	2.16	1.73	2.82	.79	1.08	.626	.98	PD030	3.2	D36CPFRXO8D
1"	4.49	5.98	5.59	2.56	2.05	3.30	.79	1.28	.875	1.98	PD060	6.4	E36CPFRXO8D
1-1/2"	4.89	6.65	6.52	2.83	2.68	4.32	.79	1.41	1.375	1.98	PD090	10.1	G36CPFRXO8D
2"	5.71	6.65	6.87	2.83	3.03	5.03	.79	1.41	1.875	2.52	PD090	14.1	H36CPFRXO8D
3"	7.56	8.35	9.29	3.54	4.33	7.40	1.18	1.77	2.875	3.54	PD180	35.5	J36CPFRXO8D
4"	See E Series												
60 PSI Minimum Actuator Air Supply = 6D													
1/2"	3.66	5.12	4.73	2.16	1.58	2.58	.79	1.08	.378	.98	PD030	3.2	C36CPFRXO6D
3/4"	4.14	5.12	4.88	2.16	1.73	2.82	.79	1.08	.626	.98	PD030	3.2	D36CPFRXO6D
1"	4.49	6.65	5.89	2.83	2.05	3.30	.79	1.41	.875	1.98	PD090	7.1	E36CPFRXO6D
1-1/2"	4.89	7.24	7.24	2.83	2.68	4.32	1.18	1.57	1.375	1.98	PD120	12.2	G36CPFRXO6D
2"	5.71	7.24	7.59	2.83	3.03	5.03	1.18	1.57	1.875	2.52	PD120	16.2	H36CPFRXO6D
3"	See E Series												
4"	See E Series												

36 VALVE FEATURES

- Full port 316 stainless steel body and ball.
- PTFE seats, cavity fillers and stem seals.
- Investment cast body.
- Live loaded pyramidal stem seals.
- 3 piece design with Quick Clamp ends.
- Temperature range: -30°F to 380°F.
- Pressure range: 29 inHg vacuum to 1000 PSI.
- Surface Finish: 180 grit and Ra of 24u-in.

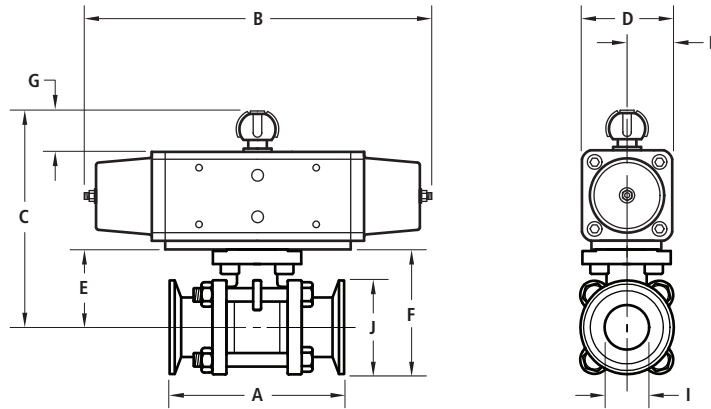
PNEUMATIC ACTUATOR FEATURES

- O Series double acting pneumatic actuator.
- Corrosion resistant coating.
- NAMUR solenoid mounting pad, ISO 5211 mounting standard.
- Visual position indicators.
- High duty cycle.
- Permanent lubrication.
- Temperature range: -4°F to 175°F.

36CPFRXOSR Series

Stainless steel 2-way full port ball valve with spring return pneumatic actuator

(Quick Clamp end connections and cavity filler seats, actuators are sized for 300 PSI pressure differential)



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	C	D	E	F	G	H	I	J	Actuator	Wt. (lbs.)	Model No.
80 PSI Minimum Actuator Air Supply = 8S													
1/2"	3.66	9.45	5.12	2.56	1.58	2.58	.79	1.28	.378	.98	PS030	5.4	C36CPFRX08S
3/4"	4.14	9.45	5.27	2.56	1.73	2.82	.79	1.28	.626	.98	PS030	5.4	D36CPFRX08S
1"	4.49	11.58	5.89	2.83	2.05	3.30	.79	1.41	.875	1.98	PS045	8.3	E36CPFRX08S
1-1/2"	4.89	12.80	7.24	3.15	2.68	4.32	1.18	1.57	1.375	1.98	PS060	13.7	G36CPFRX08S
2"	5.71	12.80	7.59	3.15	3.03	5.03	1.18	1.57	1.875	2.52	PS060	17.7	H36CPFRX08S
3"	7.56	17.18	10.15	4.41	4.33	7.40	1.18	2.20	2.875	3.54	PS180	48.7	J36CPFRX08S
4"	See E Series												
60 PSI Minimum Actuator Air Supply = 6S													
1/2"	3.66	9.45	5.12	2.56	1.58	2.58	.79	1.28	.378	.98	PS030	5.4	C36CPFRX06S
3/4"	4.14	9.45	5.27	2.56	1.73	2.82	.79	1.28	.626	.98	PS030	5.4	D36CPFRX06S
1"	4.49	12.80	6.61	3.15	2.05	3.30	1.18	1.57	.875	1.98	PS060	10.7	E36CPFRX06S
1-1/2"	4.89	14.06	7.64	3.54	2.68	4.32	1.18	1.77	1.375	1.98	PS090	16.1	G36CPFRX06S
2"	5.71	14.06	7.99	3.54	3.03	5.03	1.18	1.77	1.875	2.52	PS090	20.1	H36CPFRX06S
3"	See E Series												
4"	See E Series												

36 VALVE FEATURES

- Full port 316 stainless steel body and ball.
- PTFE seats, cavity fillers and stem seals.
- Investment cast body.
- Live loaded pyramidal stem seals.
- 3 piece design with Quick Clamp ends.
- Temperature range: -30°F to 380°F.
- Pressure range: 29 inHg vacuum to 1000 PSI.
- Surface Finish: 180 grit and Ra of 24u-in.

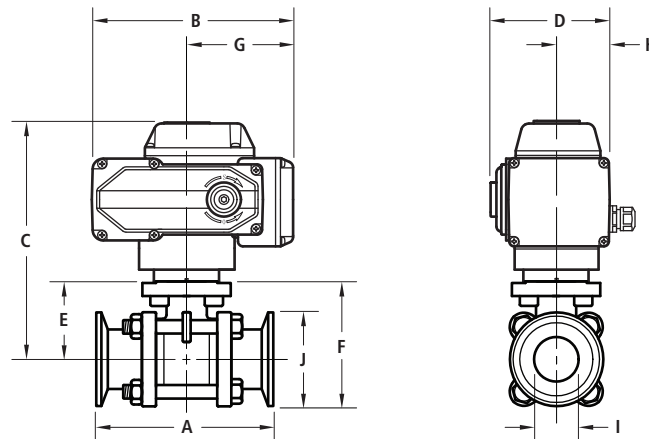
PNEUMATIC ACTUATOR FEATURES

- O Series spring return pneumatic actuator.
- Corrosion resistant coating.
- NAMUR solenoid mounting pad, ISO 5211 mounting standard.
- Visual position indicators.
- High duty cycle.
- Permanent lubrication.
- Temperature range: -4°F to 175°F.

36CPFRXK4 Series

Stainless steel 2-way full port ball valve with electric actuator, NEMA 4, 4X

(Quick Clamp end connections and cavity filler seats, actuators are sized for 300 PSI pressure differential)



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	C	D	E	F	G	H	I	J	Actuator	Wt. (lbs.)	Model No.
1"	4.49	8.17	8.49	4.82	2.05	3.30	4.43	2.36	.875	1.98	KOUNIC10A-ISO	13.0	E36CPFRXK4A
1-1/2"	4.89	8.17	9.12	4.82	2.68	4.32	4.43	2.36	1.375	1.98	KOUNIC10A-ISO	16.0	G36CPFRXK4A
2"	5.71	8.17	9.47	4.82	3.03	5.03	4.43	2.36	1.872	2.52	KOUNIC10A-ISO	20.0	H36CPFRXK4A
3"	7.56	10.10	11.61	6.16	4.33	7.40	5.25	2.36	2.872	3.54	KOUNIC20A-ISO	46.0	J36CPFRXK4A
4"	9.30	15.00	14.65	9.53	5.44	8.95	7.85	2.36	3.837	4.68	KOUNIC60A-ISO	90.2	K36CPFRXK4A

36 VALVE FEATURES

- Full port 316 stainless steel body and ball.
- PTFE seats, cavity fillers and stem seals.
- Investment cast body.
- Live loaded pyramidal stem seals.
- 3 piece design with Quick Clamp ends.
- Temperature range: -30°F to 380°F.
- Pressure range: 29 inHg vacuum to 1000 PSI.
- Surface Finish: 180 grit and Ra of 24u-in.

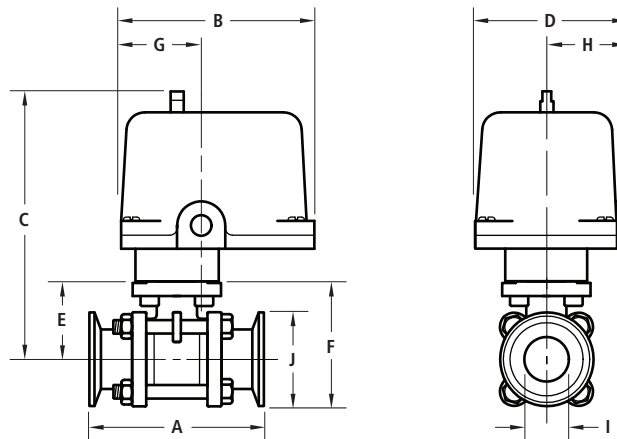
ELECTRIC ACTUATOR FEATURES

- K Series electric actuator.
- Most voltages available.
- Quarter turn: 0-90° rotation.
- NEMA 4/4X certified by UL labs.
- ISO 5211 mounting standard.
- Visual position indicators.
- Self-locking drive train.
- Mounts in any direction.
- 1/2" NPT conduit connection.
- CSA-NRTL/C and CE certified.
- Temperature range: 0°F to 160°F.

36CPFRXR4 Series

Stainless steel 2-way full port ball valve with electric actuator, NEMA 4, 4X

(Quick Clamp end connections and cavity filler seats, actuators are sized for 300 PSI pressure differential)



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	C	D	E	F	G	H	I	J	Actuator	Wt. (lbs.)	Model No.
1/2"	3.66	5.95	7.63	4.40	1.58	2.58	2.48	2.20	.378	.98	R150 (5 sec.)	5.0	C36CPFRXR4Ⓢ
3/4"	4.14	5.95	7.78	4.40	1.73	2.82	2.48	2.20	.626	.98	R150 (5 sec.)	5.0	D36CPFRXR4Ⓢ
1"	4.49	5.95	8.10	4.40	2.05	3.30	2.48	2.20	.875	1.98	R600 (16 sec.)	9.0	E36CPFRXR4Ⓢ
1-1/2"	4.89	5.95	8.73	4.40	2.68	4.32	2.48	2.20	1.375	1.98	R600 (16 sec.)	12.0	G36CPFRXR4Ⓢ
2"	5.71	5.95	9.08	4.40	3.03	5.03	2.48	2.20	1.872	2.52	R600 (16 sec.)	16.0	H36CPFRXR4Ⓢ
3"	See K Series												
4"	See K Series												

Ⓢ Voltage: A = 120 VAC; B = 24 VDC; F = 12 VDC.

36 VALVE FEATURES

- Full port 316 stainless steel body and ball.
- PTFE seats, cavity fillers and stem seals.
- Investment cast body.
- Live loaded pyramidal stem seals.
- 3 piece design with Quick Clamp ends.
- Temperature range: -30°F to 380°F.
- Pressure range: 29 inHg vacuum to 1000 PSI.
- Surface Finish: 180 grit and Ra of 24u-in.

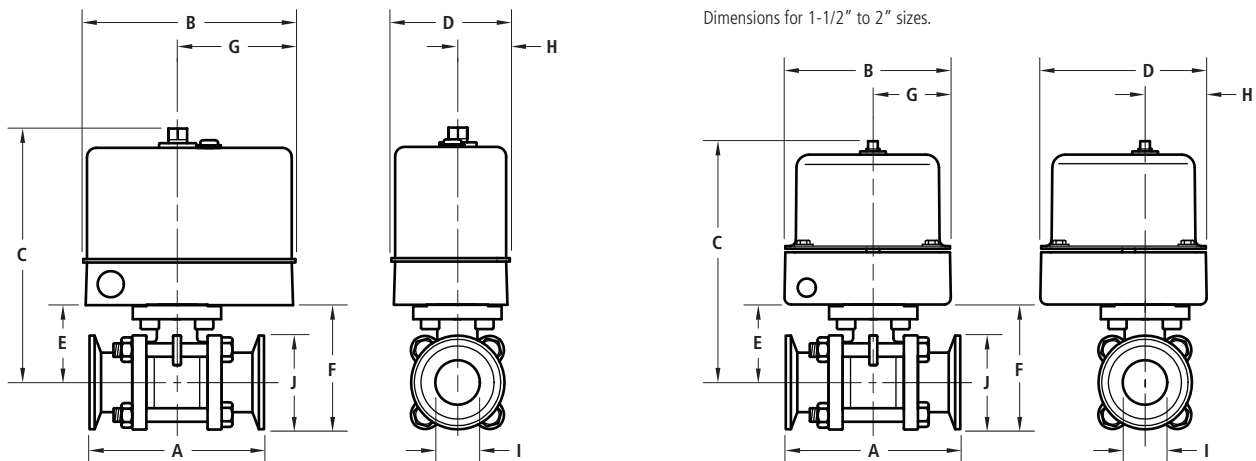
ELECTRIC ACTUATOR FEATURES

- R Series electric actuator.
- NEMA 4, 4X.
- Voltages available: 120 VAC, 12 VDC, 24 VDC.
- Duty cycle: 25% at 120 VAC, 100% at DC units.
- ISO 5211 universal mounting.
- Manual override.
- Permanent lubrication.
- Visual position indicator.
- Temperature range: 0°F to 150°F.

36CPFRXV4 Series

Stainless steel 2-way full port ball valve with electric actuator, NEMA 4, 4X

(Quick Clamp end connections and cavity filler seats, actuators are sized for 300 PSI pressure differential)



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	C	D	E	F	G	H	I	J	Actuator	Wt. (lbs.)	Model No.
1/2"	3.66	5.50	5.81	3.00	1.58	2.58	3.06	1.38	.378	.98	EV1S1V1	6.0	C36CPFRXV4⊙
3/4"	4.14	5.50	5.96	3.00	1.73	2.82	3.06	1.38	.626	.98	EV1S1V1	6.0	D36CPFRXV4⊙
1"	4.49	6.43	8.37	6.43	2.05	3.30	3.01	2.36	.875	1.98	NV6S2V1	14.0	E36CPFRXV4⊙
1-1/2"	4.89	6.43	9.00	6.43	2.68	4.32	3.01	2.36	1.375	1.98	NV6S2V1	17.0	G36CPFRXV4⊙
2"	5.71	6.43	9.35	6.43	3.03	5.03	3.01	2.36	1.872	2.52	NV6S2V1	21.0	H36CPFRXV4⊙
3"	See K Series												
4"	See K Series												

⊙ Voltage: A = 120 VAC; B = 24 VDC; F = 12 VDC.

36 VALVE FEATURES

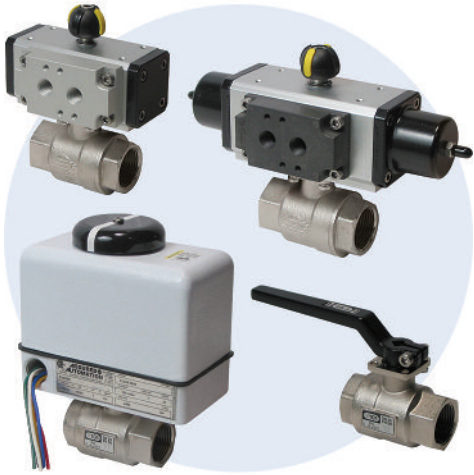
- Full port 316 stainless steel body and ball.
- PTFE seats, cavity fillers and stem seals.
- Investment cast body.
- Live loaded pyramidal stem seals.
- 3 piece design with Quick Clamp ends.
- Temperature range: -30°F to 380°F.
- Pressure range: 29 inHg vacuum to 1000 PSI.
- Surface Finish: 180 grit and Ra of 24u-in.

ELECTRIC ACTUATOR FEATURES

- V Series electric actuator.
- NEMA 4, 4X.
- Voltages available: 120 VAC, 220 VAC, 24 VAC, 12 VDC, 24 VDC.
- Duty cycle: 25% at 120 VAC (EV1), 75% at 120 VAC (EV3, NV6), 100% at DC units.
- ISO 5211 universal mounting.
- Manual override.
- Permanent lubrication.
- Visual position indicator.
- Temperature range: 0°F to 160°F.

101 Series

Nickel Plated Brass 2-way Full Port Ball Valve



The 101 is a full port, nickel plated brass, NPT threaded end actuated ball valve. It can be equipped with a manual handle or with direct mount pneumatic or electric actuators. The direct mount actuators eliminate the valve-actuator mounting kit, which adds unnecessary height and expense.

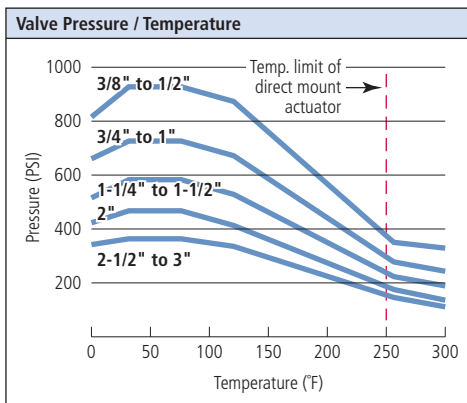
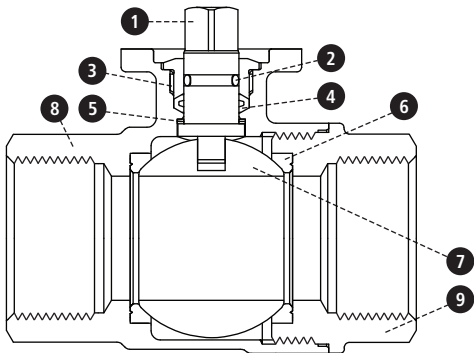
A full range of accessory items are available including limit switches, solenoid valves, positioners and manual override devices.

FEATURES

- Actuated electrically, pneumatically, or manually.
- Full Port for unobstructed flow.
- 2-piece body.
- Integrated mounting pad for actuators.
- Compact assembly.
- Complete line of accessories.

TYPICAL APPLICATIONS

- Air drying equipment.
- Pollution control equipment.
- Process control applications.
- Laundry equipment.
- Textile dyeing and drying.
- Bottling and dispensing equipment.



ACTUATOR CONFIGURATIONS

- Electric.
- Pneumatic (spring return).
- Pneumatic (double acting).
- Manual handle.

PRESSURE RANGE

29 inHg vacuum to 900 PSI:
3/8" to 1/2"
29 inHg vacuum to 700 PSI:
3/4" to 1"
29 inHg vacuum to 525 PSI:
1-1/4" to 1-1/2"
29 inHg vacuum to 400 PSI:
2"
29 inHg vacuum to 350 PSI:
2-1/2" to 3"

TEMPERATURE RANGE

-4°F to 300°F

MATERIALS OF CONSTRUCTION

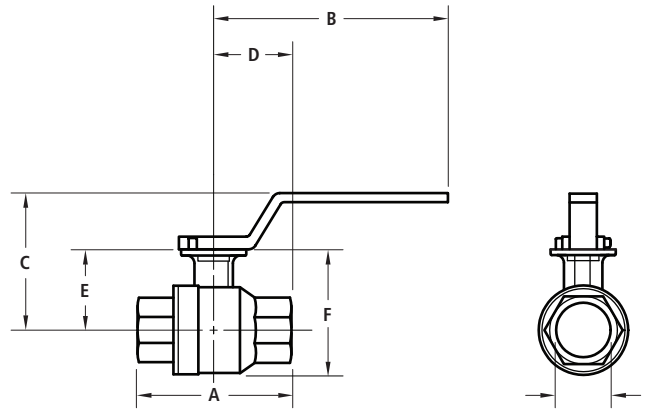
Part	Qty.	Description	Standard Material
1	1	Shaft	Brass
2	1	O-Ring	FKM
3	1	Gland Nut	Brass
4	1	Shaft Seal	PTFE
5	2	Antifriction Rings	PTFE
6	2	Seals	PTFE
7	1	Ball	Chromium Plated Brass
8	1	Body	Nickel Plated Brass
9	1	End Cap	Nickel Plated Brass

CV FACTORS

Size	CV
3/8"	13
1/2"	23
3/4"	70
1"	117
1-1/4"	152
1-1/2"	199
2"	328
3"	901

101NXM Series

Nickel plated brass 2-way full port ball valve with manual handle
(Threaded end connection, 2 piece body)



DIMENSIONS, WEIGHTS & SPECIFICATIONS

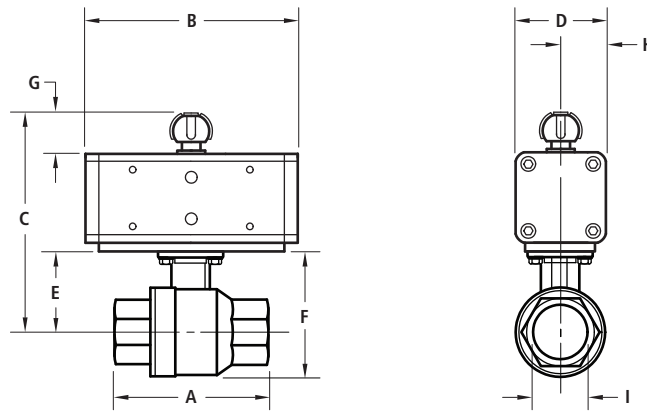
Size	A	B	C	D	E	F	I	Wt. (lbs.)	Model No.
3/8"	2.45	3.71	2.51	1.22	1.20	1.81	.375	1.2	B101NXM
1/2"	2.45	3.71	2.66	1.22	1.20	1.81	.500	1.2	C101NXM
3/4"	2.69	5.07	3.09	1.34	1.43	2.20	.750	1.4	D101NXM
1"	3.14	5.07	3.28	1.57	1.59	2.50	1.00	2.8	E101NXM
1-1/4"	3.63	5.07	3.78	1.82	2.03	3.18	1.25	3.7	F101NXM
1-1/2"	4.03	5.07	4.10	2.02	2.29	3.63	1.50	5.8	G101NXM
2"	4.58	5.07	4.45	2.29	2.58	4.24	2.00	8.8	H101NXM
3"	6.64	9.50	5.72	3.32	3.73	6.14	3.00	12.5	J101NXM

101 VALVE FEATURES

- Full port nickel plated brass body and ball.
- PTFE seats and seals.
- NPT threaded end connection.
- Temperature range: -4°F to 300°F.
- Pressure range: 29 inHg vacuum to 900 PSI: 3/8" to 1/2",
29 inHg vacuum to 700 PSI: 3/4" to 1",
29 inHg vacuum to 525 PSI: 1-1/4" to 1-1/2",
29 inHg vacuum to 400 PSI: 2",
29 inHg vacuum to 350 PSI: 2-1/2" to 3".

101NXODA Series

Nickel plated brass 2-way full port ball valve with double acting pneumatic actuator
 (Threaded end connection, 2 piece body, actuators are sized for 150 PSI media line pressure)



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	C	D	E	F	G	H	I	Actuator	Wt. (lbs.)	Model No.
80 psig Minimum Actuator Air Supply = 8D												
3/8"	2.45	2.76	3.47	1.70	1.20	1.81	.59	.85	.375	PD008	1.8	B101NX08D
1/2"	2.45	2.76	3.47	1.70	1.20	1.81	.59	.85	.500	PD008	1.8	C101NX08D
3/4"	2.69	4.53	4.28	1.89	1.43	2.20	.79	.95	.750	PD015	3.1	D101NX08D
1"	3.14	4.53	4.43	1.89	1.59	2.50	.79	.95	1.00	PD015	4.4	E101NX08D
1-1/4"	3.63	5.12	5.18	2.16	2.03	3.18	.79	1.08	1.25	PD030	5.9	F101NX08D
1-1/2"	4.03	5.12	5.43	2.16	2.29	3.63	.79	1.08	1.50	PD030	8.0	G101NX08D
2"	4.58	5.67	5.91	2.36	2.58	4.24	.79	1.18	2.00	PD045	11.6	H101NX08D
3"	6.64	7.24	8.29	3.15	3.73	6.14	1.18	1.57	3.00	PD120	18.7	J101NX08D
60 psig Minimum Actuator Air Supply = 6D												
3/8"	2.45	4.53	3.47	1.89	1.20	1.81	.59	.95	.375	PD015	2.8	B101NX06D
1/2"	2.45	4.53	3.47	1.89	1.20	1.81	.59	.95	.500	PD015	2.8	C101NX06D
3/4"	2.69	5.12	4.28	2.16	1.43	2.20	.79	1.08	.750	PD030	3.7	D101NX06D
1"	3.14	5.12	4.43	2.16	1.59	2.50	.79	1.08	1.00	PD030	5.0	E101NX06D
1-1/4"	3.63	5.12	5.18	2.16	2.03	3.18	.79	1.08	1.25	PD030	6.0	F101NX06D
1-1/2"	4.03	5.12	5.43	2.16	2.29	3.63	.79	1.08	1.50	PD030	8.0	G101NX06D
2"	4.58	5.98	5.91	2.56	2.58	4.24	.79	1.28	2.00	PD060	12.2	H101NX06D
3"	6.64	8.35	8.29	3.54	3.73	6.14	1.18	1.77	3.00	PD180	20.0	J101NX06D

101 VALVE FEATURES

- Full port nickel plated brass body and ball.
- PTFE seats and seals.
- NPT threaded end connection.
- Temperature range: -4°F to 300°F.
- Pressure range: 29 inHg vacuum to 900 PSI: 3/8" to 1/2",
29 inHg vacuum to 700 PSI: 3/4" to 1",
29 inHg vacuum to 525 PSI: 1-1/4" to 1-1/2",
29 inHg vacuum to 400 PSI: 2",
29 inHg vacuum to 350 PSI: 2-1/2" to 3".

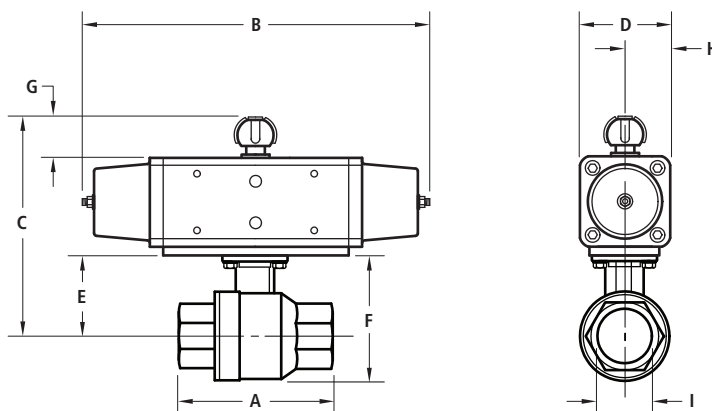
PNEUMATIC ACTUATOR FEATURES

- O Series double acting pneumatic actuator.
- Corrosion resistant coating.
- NAMUR solenoid mounting pad, ISO 5211 mounting standard.
- Visual position indicators.
- High duty cycle.
- Permanent lubrication.
- Temperature range: -4°F to 175°F.

101NXOSR Series

Nickel plated brass 2-way full port ball valve with spring return pneumatic actuator

(Threaded end connection, 2 piece body, actuators are sized for 150 PSI media line pressure)



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	C	D	E	F	G	H	I	Actuator	Wt. (lbs.)	Model No.
80 psig Minimum Actuator Air Supply = 85												
3/8"	2.45	8.71	4.43	2.17	1.20	1.81	.59	1.08	.375	PS015	4.1	B101NX08S
1/2"	2.45	8.71	4.43	2.17	1.20	1.81	.59	1.08	.500	PS015	4.1	C101NX08S
3/4"	2.69	8.71	4.66	2.17	1.43	2.20	.79	1.08	.750	PS015	4.3	D101NX08S
1"	3.14	8.71	4.81	2.17	1.59	2.50	.79	1.08	1.00	PS015	5.7	E101NX08S
1-1/4"	3.63	9.45	5.57	2.56	2.03	3.18	.79	1.28	1.25	PS030	8.1	F101NX08S
1-1/2"	4.03	9.45	5.82	2.56	2.29	3.63	.79	1.28	1.50	PS030	10.2	G101NX08S
2"	4.58	11.58	6.42	2.83	2.58	4.24	.79	1.41	2.00	PS045	14.1	H101NX08S
3"	6.64	14.65	9.08	3.94	3.73	6.14	1.18	1.97	3.00	PS120	27.2	J101NX08S
60 psig Minimum Actuator Air Supply = 65												
3/8"	2.45	8.71	4.43	2.17	1.20	1.81	.59	1.08	.375	PS015	4.1	B101NX06S
1/2"	2.45	8.71	4.43	2.17	1.20	1.81	.59	1.08	.500	PS015	4.1	C101NX06S
3/4"	2.69	9.45	4.66	2.56	1.43	2.20	.79	1.28	.750	PS030	5.9	D101NX06S
1"	3.14	9.45	4.81	2.56	1.59	2.50	.79	1.28	1.00	PS030	7.2	E101NX06S
1-1/4"	3.63	9.45	5.57	2.56	2.03	3.18	.79	1.28	1.25	PS030	8.1	F101NX06S
1-1/2"	4.03	9.45	5.82	2.56	2.29	3.63	.79	1.28	1.50	PS030	10.2	G101NX06S
2"	4.58	12.60	6.42	3.15	2.58	4.24	.79	1.57	2.00	PS060	16.5	H101NX06S
3"	6.64	17.18	9.08	4.41	3.73	6.14	1.18	2.20	3.00	PS180	33.2	J101NX06S

101 VALVE FEATURES

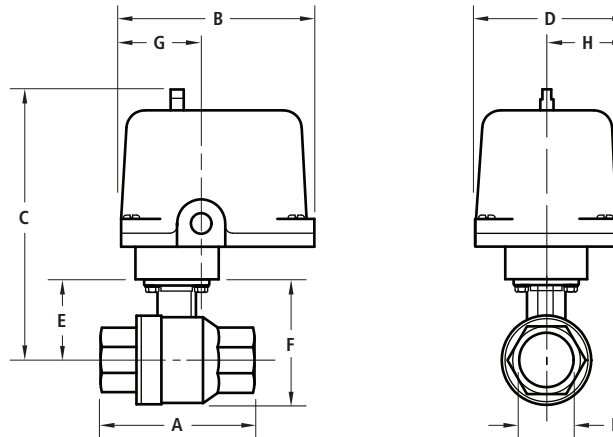
- Full port nickel plated brass body and ball.
- PTFE seats and seals.
- NPT threaded end connection.
- Temperature range: -4°F to 300°F.
- Pressure range: 29 inHg vacuum to 900 PSI: 3/8" to 1/2",
29 inHg vacuum to 700 PSI: 3/4" to 1",
29 inHg vacuum to 525 PSI: 1-1/4" to 1-1/2",
29 inHg vacuum to 400 PSI: 2",
29 inHg vacuum to 350 PSI: 2-1/2" to 3".

PNEUMATIC ACTUATOR FEATURES

- O Series spring return pneumatic actuator.
- Corrosion resistant coating.
- NAMUR solenoid mounting pad, ISO 5211 mounting standard.
- Visual position indicators.
- High duty cycle.
- Permanent lubrication.
- Temperature range: -4°F to 175°F.

101NXR4 Series

Nickel plated brass 2-way full port ball valve with electric actuator, NEMA 4, 4X
 (Threaded end connection, 2 piece body, actuators are sized for 150 PSI media line pressure)



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	C	D	E	F	G	H	I	Actuator	Wt. (lbs.)	Model No.
3/8"	2.45	5.95	7.27	4.40	1.20	1.81	2.48	2.20	.375	R150 (5 sec.)	5.1	B101NXR4Ⓢ
1/2"	2.45	5.95	7.27	4.40	1.20	1.81	2.48	2.20	.500	R150 (5 sec.)	5.2	C101NXR4Ⓢ
3/4"	2.69	5.95	7.50	4.40	1.43	2.20	2.48	2.20	.750	R150 (5 sec.)	5.4	D101NXR4Ⓢ
1"	3.14	5.95	7.66	4.40	1.59	2.50	2.48	2.20	1.00	R150 (5 sec.)	6.8	E101NXR4Ⓢ
1-1/4"	3.63	5.95	8.08	4.40	2.03	3.18	2.48	2.20	1.25	R300 (9 sec.)	9.7	F101NXR4Ⓢ
1-1/2"	4.03	5.95	8.33	4.40	2.29	3.63	2.48	2.20	1.50	R300 (9 sec.)	11.8	G101NXR4Ⓢ
2"	4.58	5.95	8.63	4.40	2.58	4.24	2.48	2.20	2.00	R300 (9 sec.)	14.8	H101NXR4Ⓢ
3"	See V4 Series											

Ⓢ Voltage: A = 120 VAC; B = 24 VDC; F = 12 VDC.

101 VALVE FEATURES

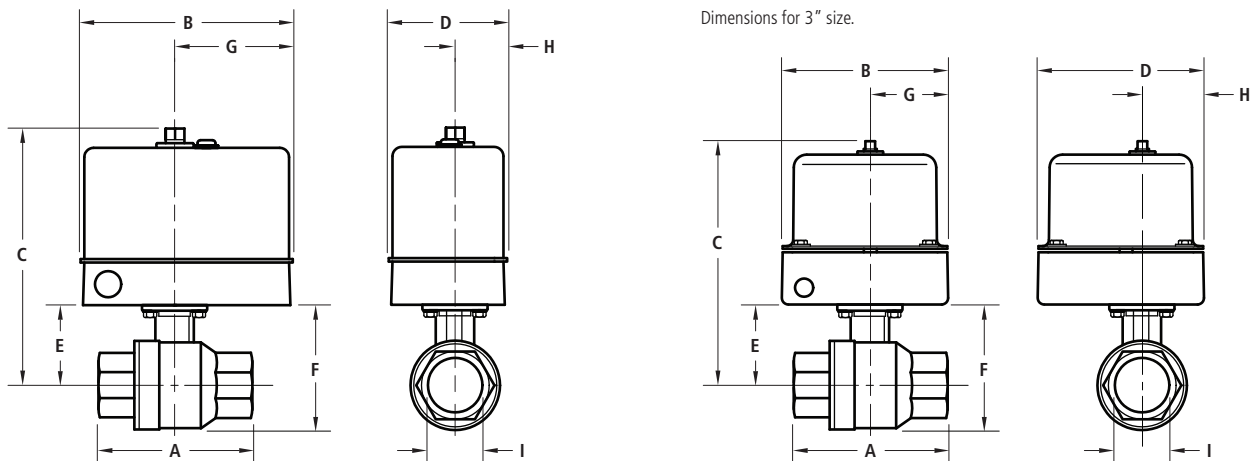
- Full port nickel plated brass body and ball.
- PTFE seats and seals.
- NPT threaded end connection.
- Temperature range: -4°F to 300°F.
- Pressure range: 29 inHg vacuum to 900 PSI: 3/8" to 1/2", 29 inHg vacuum to 700 PSI: 3/4" to 1", 29 inHg vacuum to 525 PSI: 1-1/4" to 1-1/2", 29 inHg vacuum to 400 PSI: 2", 29 inHg vacuum to 350 PSI: 2-1/2" to 3".

ELECTRIC ACTUATOR FEATURES

- R Series electric actuator.
- NEMA 4, 4X.
- Voltages available: 120 VAC, 12 VDC, 24 VDC.
- Duty cycle: 25% at 120 VAC, 100% at DC units.
- ISO 5211 universal mounting.
- Manual override.
- Permanent lubrication.
- Visual position indicator.
- Temperature range: 0°F to 150°F.

101NXV4 Series

Nickel plated brass 2-way full port ball valve with electric actuator, NEMA 4, 4X
 (Threaded end connection, 2 piece body, actuators are sized for 150 PSI media line pressure)



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	C	D	E	F	G	H	I	Actuator	Wt. (lbs.)	Model No.
3/8"	2.45	5.50	5.43	3.00	1.20	1.81	3.06	1.38	.375	EV1S1V1	6.2	B101NXV4⊙
1/2"	2.45	5.50	5.43	3.00	1.20	1.81	3.06	1.38	.500	EV1S1V1	6.2	C101NXV4⊙
3/4"	2.69	5.50	5.66	3.00	1.43	2.20	3.06	1.38	.750	EV1S1V1	6.4	D101NXV4⊙
1"	3.14	5.50	5.81	3.00	1.59	2.50	3.06	1.38	1.00	EV1S1V1	7.8	E101NXV4⊙
1-1/4"	3.63	5.50	6.26	3.00	2.03	3.18	3.06	1.38	1.25	EV3S2V1	8.7	F101NXV4⊙
1-1/2"	4.03	5.50	6.51	3.00	2.29	3.63	3.06	1.38	1.50	EV3S2V1	10.8	G101NXV4⊙
2"	4.58	5.50	6.81	3.00	2.58	4.24	3.06	1.38	2.00	EV3S2V1	13.8	H101NXV4⊙
3"	6.64	6.43	10.05	6.43	3.73	6.14	3.01	2.36	3.00	NV1KS2V1	23.5	J101NXV4⊙

⊙ Voltage: A = 120 VAC; B = 24 VDC; C = 220 VAC; E = 24 VAC; F = 12 VDC.

101 VALVE FEATURES

- Full port nickel plated brass body and ball.
- PTFE seats and seals.
- NPT threaded end connection.
- Temperature range: -4°F to 300°F.
- Pressure range: 29 inHg vacuum to 900 PSI: 3/8" to 1/2", 29 inHg vacuum to 700 PSI: 3/4" to 1", 29 inHg vacuum to 525 PSI: 1-1/4" to 1-1/2", 29 inHg vacuum to 400 PSI: 2", 29 inHg vacuum to 350 PSI: 2-1/2" to 3".

ELECTRIC ACTUATOR FEATURES

- V Series electric actuator.
- NEMA 4, 4X.
- Voltages available: 120 VAC, 220 VAC, 24 VAC, 12 VDC, 24 VDC.
- Duty cycle: 25% at 120 VAC (EV1), 75% at 120 VAC (EV3, NV6), 100% at DC units.
- ISO 5211 universal mounting.
- Manual override.
- Permanent lubrication.
- Visual position indicator.
- Temperature range: 0°F to 160°F.

150F & 300F Series

Full Port Two-Piece Ball Valve



Assured Automation's 150F and 300F series ball valves offer a unique design that is ideal for process and petrochemical applications.

FEATURES

- Floating ball and protected seat design.
- O-ring backed seat.
- Fire safe designed to API 607-5.
- Spiral wound body gasket with secondary metal to metal seal.
- Open and close locking device for position safety lockout.
- O-ring reinforced stem packing.

MATERIALS OF CONSTRUCTION

Body:

Stainless steel or carbon steel.

Seats:

TFM.

MAXIMUM PRESSURE

Class 150:

Body: 275 PSI

Class 300:

Body: 700 PSI

MAXIMUM TEMPERATURE

475°F

ACTUATOR CONFIGURATIONS

- Electric.
- Pneumatic (spring return).
- Pneumatic (double acting).
- Manual handle.

SPECIFICATIONS

Connections:

1/2" to 12" flanged.

Cv FACTORS & MAX. OPERATING TORQUES

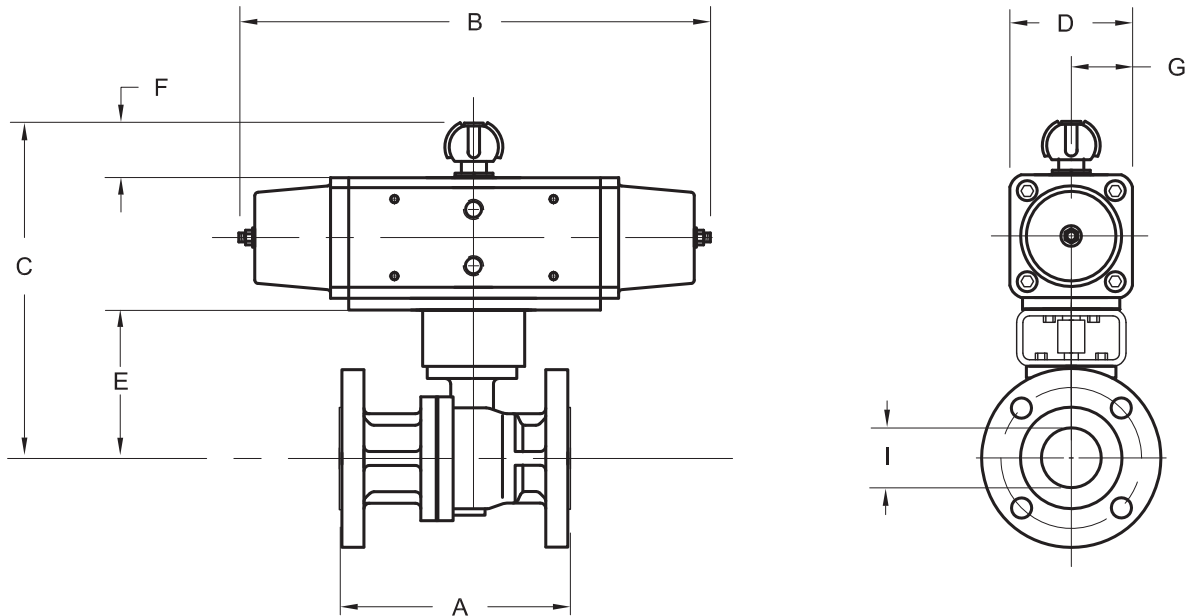
Size	Cv	Torque (in/lb) TFM Seats
Class 150:		
1/2"	17	62
3/4"	43	90
1"	74	100
1-1/4"	192	240
1-1/2"	290	270
2"	410	360
2-1/2"	780	620
3"	1,120	800
4"	1,825	1,700
6"	4,700	4,600
8"	10,100	9,900
10"	17,500	17,000
12"	22,400	23,000
Class 300:		
1/2"	15	65
3/4"	40	95
1"	70	105
1-1/4"	189	252
1-1/2"	300	284
2"	430	378
2-1/2"	768	651
3"	1,090	840
4"	1,900	1,785
6"	4,800	4,830
8"	10,000	10,395
10"	17,350	17,850
12"	21,700	24,150

150F_F OSR .5 - 2

Full port ball valve with spring return pneumatic actuator

150# Flanged 2-pc body TFM Seats

Actuators are sized for 150 psi pressure differential



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	C	D	E	F	G	I	Actuator	Wt.(lbs.)	Model No.
80 psig Minimum Actuator Air Supply = 8S											
1/2"	4.25	8.71	7.77	2.17	4.54	.79	1.08	.59	PS015	9.4	C150F * F O8S ①
3/4"	4.62	9.45	8.24	2.56	4.70	.79	1.28	.79	PS030	14.4	D150F * F O8S ①
1"	5.00	9.45	8.60	2.56	5.06	.79	1.28	.98	PS030	16.9	E150F * F O8S ①
1-1/2"	6.50	12.60	10.21	3.15	5.65	1.18	1.57	1.50	PS060	27.2	G150F * F O8S ①
2"	7.00	14.06	10.86	3.54	5.90	1.18	1.77	1.97	PS090	36.1	H150F * F O8S ①
60 psig Minimum Actuator Air Supply = 6S											
1/2"	4.25	9.45	8.08	2.56	4.54	.79	1.28	.59	PS030	13.4	C150F * F O6S ①
3/4"	4.62	9.45	8.24	2.56	4.70	.79	1.28	.79	PS030	14.4	D150F * F O6S ①
1"	5.00	9.45	8.60	2.56	5.06	.79	1.28	.98	PS030	16.9	E150F * F O6S ①
1-1/2"	6.50	14.06	10.61	3.54	5.65	1.18	1.77	1.50	PS090	29.6	G150F * F O6S ①
2"	7.00	14.06	10.86	3.54	5.90	1.18	1.77	1.97	PS090	36.1	H150F * F O6S ①

Note: Dimensions "C" & "E" include a 3" high mounting bracket

*C = Carbon Stl Body, 316SS Trim

*S = 316SS Body & Trim

① C=Fail Close, O=Fail Open

150 VALVE SPECIFICATIONS

- 150F Class 150
- Standard Steam Working Pressure: 150SWP, optional 300PSIG
- Protected Seat Design
- Fire Safe Designed to API607-5
- Spiral Wound Body Gasket w/Secondary metal to metal seat
- Carbon Steel or Stainless Steel Body
- Seats: TFM
- Max Temp: TFM seats: 475°F

PNEUMATIC ACTUATOR FEATURES

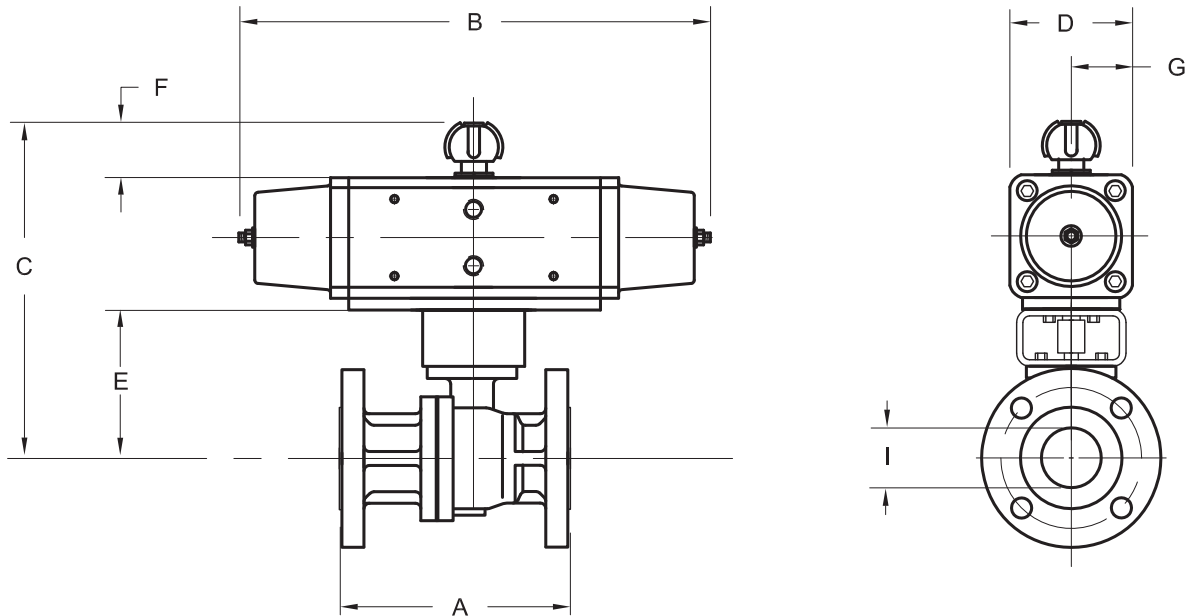
- O Series spring return pneumatic actuator
- Corrosion resistant coating
- NAMUR solenoid mounting pad, ISO 5211 mounting standard
- Visual position indicator
- High duty cycle, permanent lubrication
- Temperature range: -4°F to 175°F

150F_S OSR .5 - 2

Full port ball valve with spring return pneumatic actuator

150# Flanged 2-pc body 50/50 Seats

Actuators are sized for 150 psi pressure differential



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	C	D	E	F	G	I	Actuator	Wt.(lbs.)	Model No.
80 psig Minimum Actuator Air Supply = 8S											
1/2"	4.25	9.45	8.08	2.56	4.54	.79	1.28	.59	PS030	13.4	C150F * S O8S ①
3/4"	4.62	9.45	8.24	2.56	4.70	.79	1.28	.79	PS030	14.4	D150F * S O8S ①
1"	5.00	9.45	8.60	2.56	5.06	.79	1.28	.98	PS030	16.9	E150F * S O8S ①
1-1/2"	6.50	14.06	10.61	3.54	5.65	1.18	1.77	1.50	PS090	29.6	G150F * S O8S ①
2"	7.00	14.65	11.25	3.94	5.90	1.18	1.97	1.97	PS120	40.7	H150F * S O8S ①
60 psig Minimum Actuator Air Supply = 6S											
1/2"	4.25	9.45	8.08	2.56	4.54	.79	1.28	.59	PS030	13.4	C150F * S O6S ①
3/4"	4.62	11.58	8.54	2.83	4.70	.79	1.41	.79	PS045	15.3	D150F * S O6S ①
1"	5.00	11.58	8.90	2.83	5.06	.79	1.41	.98	PS045	17.8	E150F * S O6S ①
1-1/2"	6.50	14.65	11.00	3.94	5.65	1.18	1.97	1.50	PS120	34.2	G150F * S O6S ①
2"	7.00	17.18	11.72	4.41	5.90	1.18	2.20	1.97	PS180	46.7	H150F * S O6S ①

Note: Dimensions "C" & "E" include a 3" high mounting bracket

*C = Carbon Stl Body, 316SS Trim

*S = 316SS Body & Trim

① C=Fail Close, O=Fail Open

150 VALVE SPECIFICATIONS

- 150F Class 150
- Standard Steam Working Pressure: 150SWP, optional 300PSIG
- Protected Seat Design
- Fire Safe Designed to API607-5
- Spiral Wound Body Gasket w/Secondary metal to metal seat
- Carbon Steel or Stainless Steel Body
- Seats: 50/50
- Max Temp: 50/50 seats: 525°F

PNEUMATIC ACTUATOR FEATURES

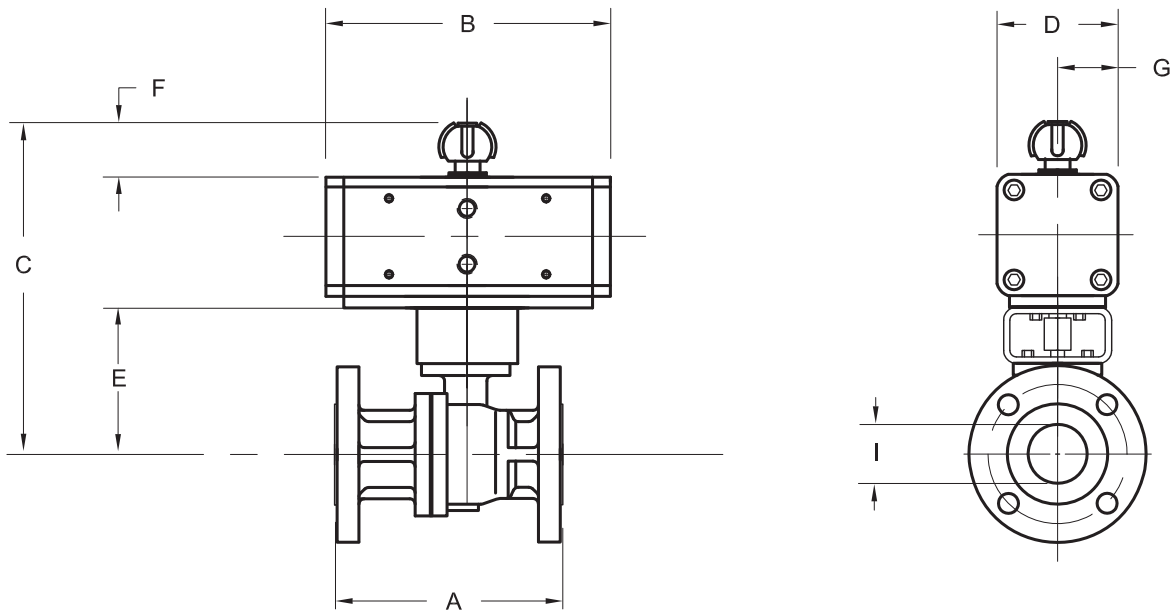
- O Series spring return pneumatic actuator
- Corrosion resistant coating
- NAMUR solenoid mounting pad, ISO 5211 mounting standard
- Visual position indicator
- High duty cycle, permanent lubrication
- Temperature range: -4°F to 175°F

150F_F ODA .5 - 2

Full port ball valve with double acting pneumatic actuator

150# Flanged 2-pc body TFM Seats

Actuators are sized for 150 psi pressure differential



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	C	D	E	F	G	I	Actuator	Wt.(lbs.)	Model No.
80 psig Minimum Actuator Air Supply = 8D											
1/2"	4.25	5.12	7.69	2.17	4.54	.79	1.08	.59	PD030	11.2	C150F * F O8D
3/4"	4.62	5.12	7.85	2.17	4.70	.79	1.08	.79	PD030	12.2	D150F * F O8D
1"	5.00	5.12	8.21	2.17	5.06	.79	1.08	.98	PD030	14.7	E150F * F O8D
1-1/2"	6.50	5.98	9.19	2.56	5.65	.79	1.28	1.50	PD060	22.9	G150F * F O8D
2"	7.00	6.65	9.74	2.83	5.90	.79	1.41	1.97	PD090	30.1	H150F * F O8D
60 psig Minimum Actuator Air Supply = 6D											
1/2"	4.25	5.12	7.69	2.17	4.54	.79	1.08	.59	PD030	11.2	C150F * F O6D
3/4"	4.62	5.12	7.85	2.17	4.70	.79	1.08	.79	PD030	12.2	D150F * F O6D
1"	5.00	5.12	8.21	2.17	5.06	.79	1.08	.98	PD030	14.7	E150F * F O6D
1-1/2"	6.50	6.65	9.49	2.83	5.65	.79	1.41	1.50	PD090	23.6	G150F * F O6D
2"	7.00	7.24	10.46	3.15	5.90	1.18	1.57	1.97	PD120	32.2	H150F * F O6D

Note: Dimensions "C" & "E" include a 3" high mounting bracket

*C = Carbon Stl Body, 316SS Trim

*S = 316SS Body & Trim

150 VALVE SPECIFICATIONS

- 150F Class 150
- Standard Steam Working Pressure: 150SWP, optional 300PSIG
- Protected Seat Design
- Fire Safe Designed to API607-5
- Spiral Wound Body Gasket w/Secondary metal to metal seat
- Carbon Steel or Stainless Steel Body
- Seats: TFM
- Max Temp: TFM seats: 475°F

PNEUMATIC ACTUATOR FEATURES

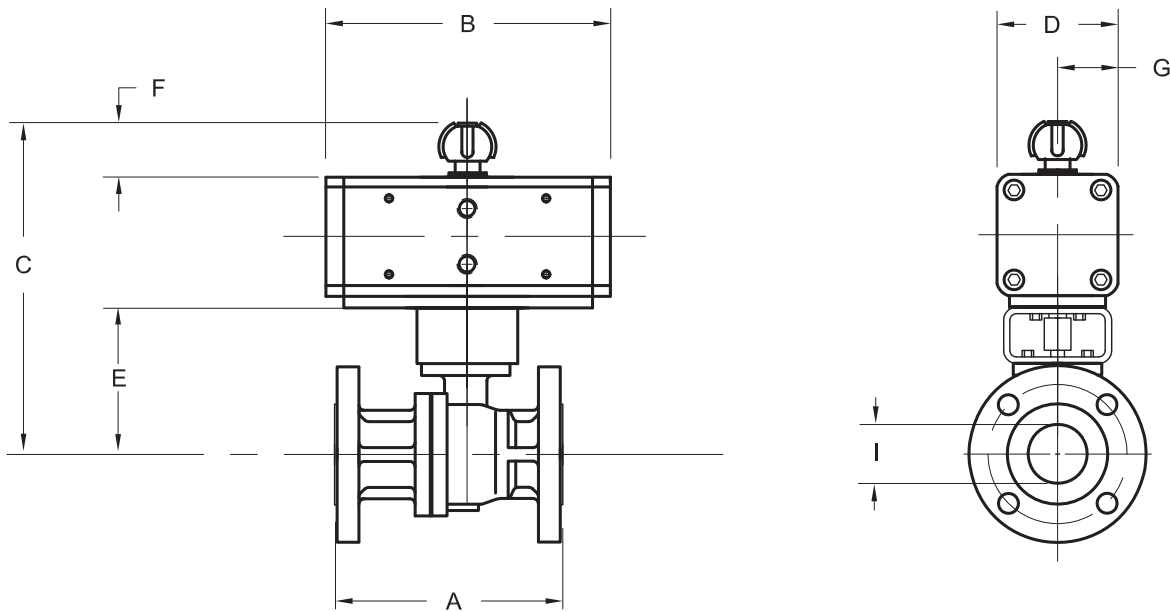
- O Series double acting pneumatic actuator
- Corrosion resistant coating
- NAMUR solenoid mounting pad, ISO 5211 mounting standard
- Visual position indicator
- High duty cycle, permanent lubrication
- Temperature range: -4°F to 175°F

150F_S ODA .5 - 2

Full port ball valve with double acting pneumatic actuator

150# Flanged 2-pc body 50/50 Seats

Actuators are sized for 150 psi pressure differential



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	C	D	E	F	G	I	Actuator	Wt.(lbs.)	Model No.
80 psig Minimum Actuator Air Supply = 8D											
1/2"	4.25	5.12	7.69	2.17	4.54	.79	1.08	.59	PD030	11.2	C150F * S O8D
3/4"	4.62	5.12	7.85	2.17	4.70	.79	1.08	.79	PD030	12.2	D150F * S O8D
1"	5.00	5.67	8.43	2.36	5.06	.79	1.18	.98	PD045	15.3	E150F * S O8D
1-1/2"	6.50	5.98	9.49	2.83	5.65	.79	1.41	1.50	PD090	23.6	G150F * S O8D
2"	7.00	7.24	10.46	3.15	5.90	1.18	1.57	1.97	PD120	32.2	H150F * S O8D
60 psig Minimum Actuator Air Supply = 6D											
1/2"	4.25	5.12	7.69	2.17	4.54	.79	1.08	.59	PD030	11.2	C150F * S O6D
3/4"	4.62	5.67	8.07	2.36	4.70	.79	1.08	.79	PD045	12.8	D150F * S O6D
1"	5.00	5.67	8.43	2.36	5.06	.79	1.08	.98	PD045	15.3	E150F * S O6D
1-1/2"	6.50	7.24	10.21	3.15	5.65	1.18	1.57	1.50	PD120	25.7	G150F * S O6D
2"	7.00	8.35	10.86	3.54	5.90	1.18	1.77	1.97	PD180	33.5	H150F * S O6D

Note: Dimensions "C" & "E" include a 3" high mounting bracket

*C = Carbon Stl Body, 316SS Trim

*S = 316SS Body & Trim

150 VALVE SPECIFICATIONS

- 150F Class 150
- Standard Steam Working Pressure: 150SWP, optional 300PSIG
- Protected Seat Design
- Fire Safe Designed to API607-5
- Spiral Wound Body Gasket w/Secondary metal to metal seat
- Carbon Steel or Stainless Steel Body
- Seats: 50/50
- Max Temp: 50/50 seats: 525°F

PNEUMATIC ACTUATOR FEATURES

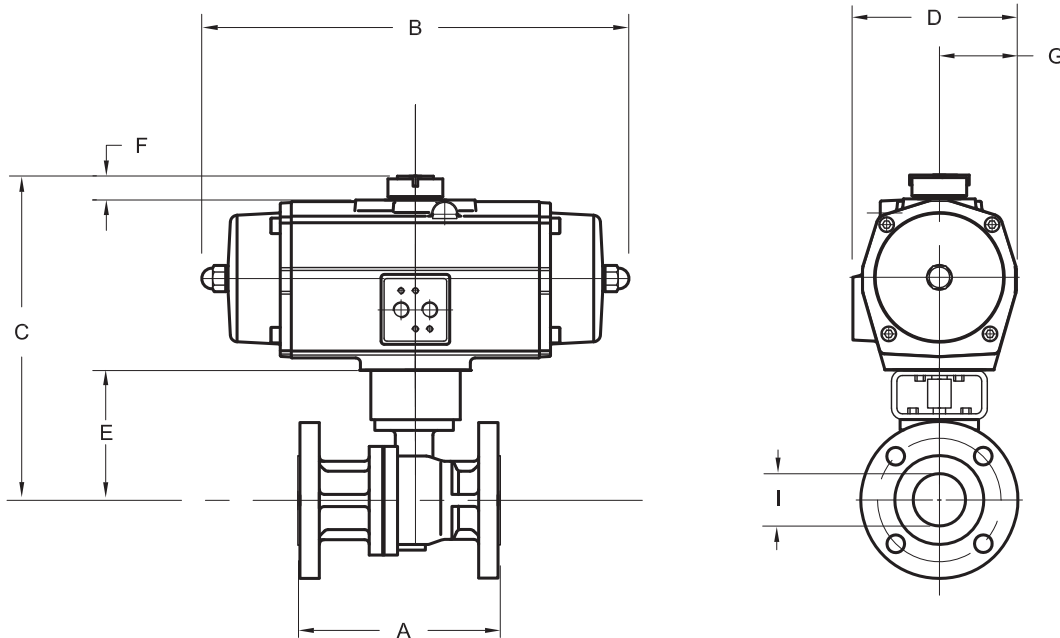
- O Series double acting pneumatic actuator
- Corrosion resistant coating
- NAMUR solenoid mounting pad, ISO 5211 mounting standard
- Visual position indicator
- High duty cycle, permanent lubrication
- Temperature range: -4°F to 175°F

150F_F ESR .5 - 2

Full port ball valve with spring return pneumatic actuator

150# Flanged 2-pc body TFM Seats

Actuators are sized for 150 psi pressure differential



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	C	D	E	F	G	I	Actuator	Wt.(lbs.)	Model No.
80 psig Minimum Actuator Air Supply = 8S											
1/2"	4.25	8.03	8.99	3.78	4.54	.79	1.70	.59	ES40	14.3	C150F * F E8S ①
3/4"	4.62	8.03	9.15	3.78	4.70	.79	1.70	.79	ES40	15.3	D150F * F E8S ①
1"	5.00	8.03	9.51	3.78	5.06	.79	1.70	.98	ES40	17.8	E150F * F E8S ①
1-1/2"	6.50	10.51	11.09	4.60	5.65	.79	2.12	1.50	ES100	29.6	G150F * F E8S ①
2"	7.00	14.17	12.32	5.39	5.90	.79	2.52	1.97	ES200	46.1	H150F * F E8S ①
60 psig Minimum Actuator Air Supply = 6S											
1/2"	4.25	8.03	8.99	3.78	4.54	.79	1.70	.59	ES40	14.3	C150F * F E6S ①
3/4"	4.62	9.80	9.62	4.19	4.70	.79	1.93	.79	ES65	17.9	D150F * F E6S ①
1"	5.00	9.80	9.98	4.19	5.06	.79	1.93	.98	ES65	20.4	E150F * F E6S ①
1-1/2"	6.50	14.17	12.07	5.39	5.65	.79	2.52	1.50	ES200	39.6	G150F * F E6S ①
2"	7.00	14.17	12.32	5.39	5.90	.79	2.52	1.97	ES200	46.1	H150F * F E6S ①

Note: Dimensions "C" & "E" include a 3" high mounting bracket

*C = Carbon Stl Body, 316SS Trim

*S = 316SS Body & Trim

① C=Fail Close, O=Fail Open

150 VALVE SPECIFICATIONS

- 150F Class 150
- Standard Steam Working Pressure: 150SWP, optional 300PSIG
- Protected Seat Design
- Fire Safe Designed to API607-5
- Spiral Wound Body Gasket w/Secondary metal to metal seat
- Carbon Steel or Stainless Steel Body
- Seats: TFM
- Max Temp: TFM seats: 475°F

PNEUMATIC ACTUATOR FEATURES

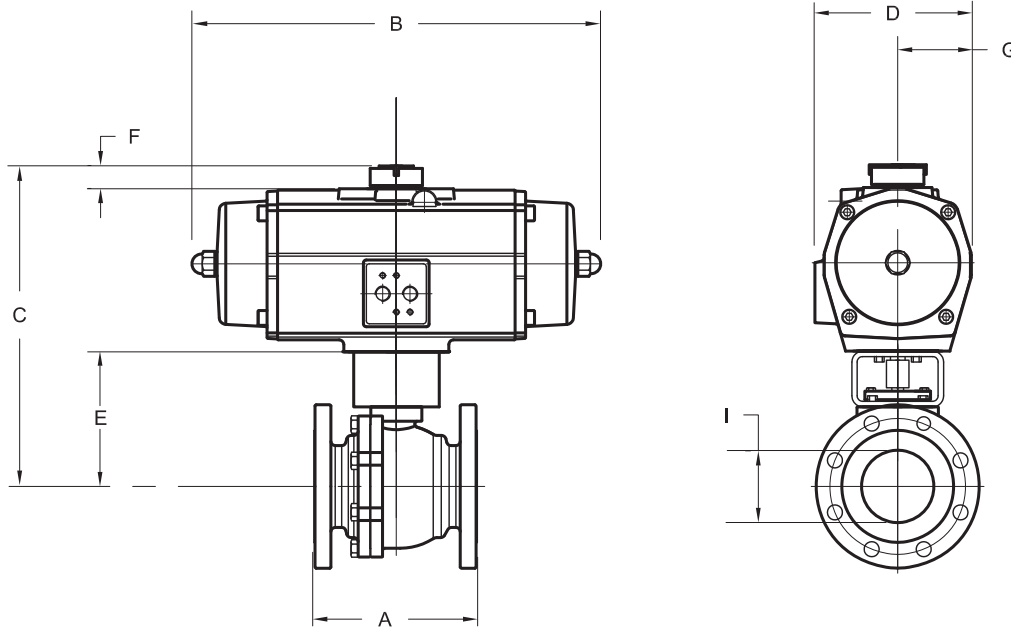
- E Series spring return rack and pinion pneumatic actuator
- Corrosion resistant coating
- NAMUR solenoid mounting pad, ISO 5211 mounting standard
- Visual position indicator
- High duty cycle, permanent lubrication
- Temperature range: -4°F to 175°F

150F_F ESR 3 - 8

Full port ball valve with spring return pneumatic actuator

150# Flanged 2-pc body TFM Seats

Actuators are sized for 150 psi pressure differential



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	C	D	E	F	G	I	Actuator	Wt.(lbs.)	Model No.
80 psig Minimum Actuator Air Supply = 8S											
3"	8.00	15.24	14.59	7.12	6.67	.79	3.41	3.00	ES350	84.8	J150F * F E8S ①
4"	9.00	18.78	18.24	8.52	8.40	1.18	4.08	4.00	ES600	132.8	K150F * F E8S ①
6"	15.50	25.08	24.07	10.81	11.20	1.18	5.21	5.98	ES1600	320.1	M150F * F E8S ①
8"	18.00	32.83	27.74	15.35	11.60	1.18	7.48	7.87	PS4000	563.0	N150F * F E8S ①
60 psig Minimum Actuator Air Supply = 6S											
3"	8.00	18.78	16.51	8.52	6.67	1.18	4.08	3.00	ES600	108.3	J150F * F E6S ①
4"	9.00	18.78	18.24	8.52	8.40	1.18	4.08	4.00	ES600	132.8	K150F * F E6S ①
6"	15.50	22.44	26.40	14.17	11.20	1.18	6.89	5.98	PS2500	369.0	M150F * F E6S ①
8"	18.00	32.83	27.74	15.35	11.60	1.18	7.48	7.87	PS4000	563.0	N150F * F E6S ①

Note: Dimensions "C" & "E" include a 3" high mounting bracket on 3" valve and a 4" high mounting bracket on 4" - 8" valves

*C = Carbon Stl Body, 316SS Trim

*S = 316SS Body & Trim

① C=Fail Close, O=Fail Open

150 VALVE SPECIFICATIONS

- 150F Class 150
- Standard Steam Working Pressure: 150SWP, optional 300PSIG
- Protected Seat Design
- Fire Safe Designed to API607-5
- Spiral Wound Body Gasket w/Secondary metal to metal seat
- Carbon Steel or Stainless Steel Body
- Seats: TFM
- Max Temp: TFM seats: 475°F

PNEUMATIC ACTUATOR FEATURES

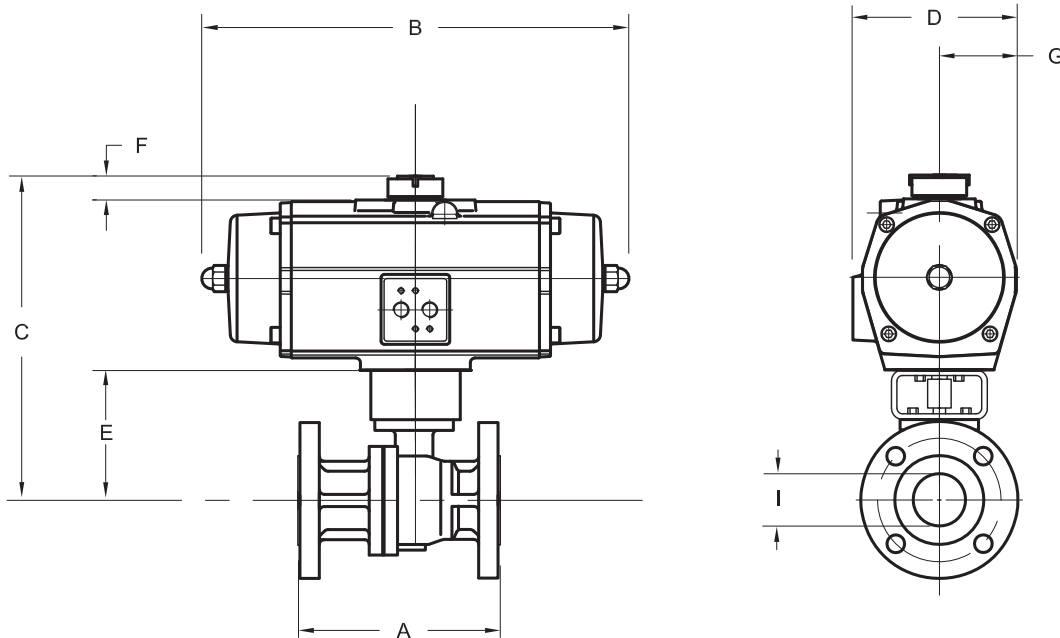
- E Series spring return rack and pinion pneumatic actuator
- Corrosion resistant coating
- NAMUR solenoid mounting pad, ISO 5211 mounting standard
- Visual position indicator
- High duty cycle, permanent lubrication
- Temperature range: -4°F to 175°F

150F_S ESR .5 - 2

Full port ball valve with spring return pneumatic actuator

150# Flanged 2-pc body 50/50 Seats

Actuators are sized for 150 psi pressure differential



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	C	D	E	F	G	I	Actuator	Wt.(lbs.)	Model No.
80 psig Minimum Actuator Air Supply = 8S											
1/2"	4.25	8.03	8.99	3.78	4.54	.79	1.70	.59	ES40	14.3	C150F * S E8S ①
3/4"	4.62	8.03	9.15	3.78	4.70	.79	1.70	.79	ES40	15.3	D150F * S E8S ①
1"	5.00	9.80	9.98	4.19	5.06	.79	1.93	.98	ES65	20.4	E150F * S E8S ①
1-1/2"	6.50	14.17	12.07	5.39	5.65	.79	2.52	1.50	ES200	39.6	G150F * S E8S ①
2"	7.00	14.17	12.32	5.39	5.90	.79	2.52	1.97	ES200	46.1	H150F * S E8S ①
60 psig Minimum Actuator Air Supply = 6S											
1/2"	4.25	6.77	9.46	3.26	4.54	.79	1.93	.59	ES65	16.9	C150F * S E6S ①
3/4"	4.62	8.03	9.62	3.78	4.70	.79	1.93	.79	ES65	17.9	D150F * S E6S ①
1"	5.00	9.80	9.98	4.19	5.06	.79	1.93	.98	ES65	20.4	E150F * S E6S ①
1-1/2"	6.50	10.51	12.07	4.60	5.65	.79	2.52	1.50	ES200	39.6	G150F * S E6S ①
2"	7.00	14.17	13.82	5.39	5.90	.79	3.41	1.97	ES350	63.3	H150F * S E6S ①

Note: Dimensions "C" & "E" include a 3" high mounting bracket

*C = Carbon Stl Body, 316SS Trim

*S = 316SS Body & Trim

① C=Fail Close, O=Fail Open

150 VALVE SPECIFICATIONS

- 150F Class 150
- Standard Steam Working Pressure: 150SWP, optional 300PSIG
- Protected Seat Design
- Fire Safe Designed to API607-5
- Spiral Wound Body Gasket w/Secondary metal to metal seat
- Carbon Steel or Stainless Steel Body
- Seats: 50/50
- Max Temp: 50/50 seats: 525°F

PNEUMATIC ACTUATOR FEATURES

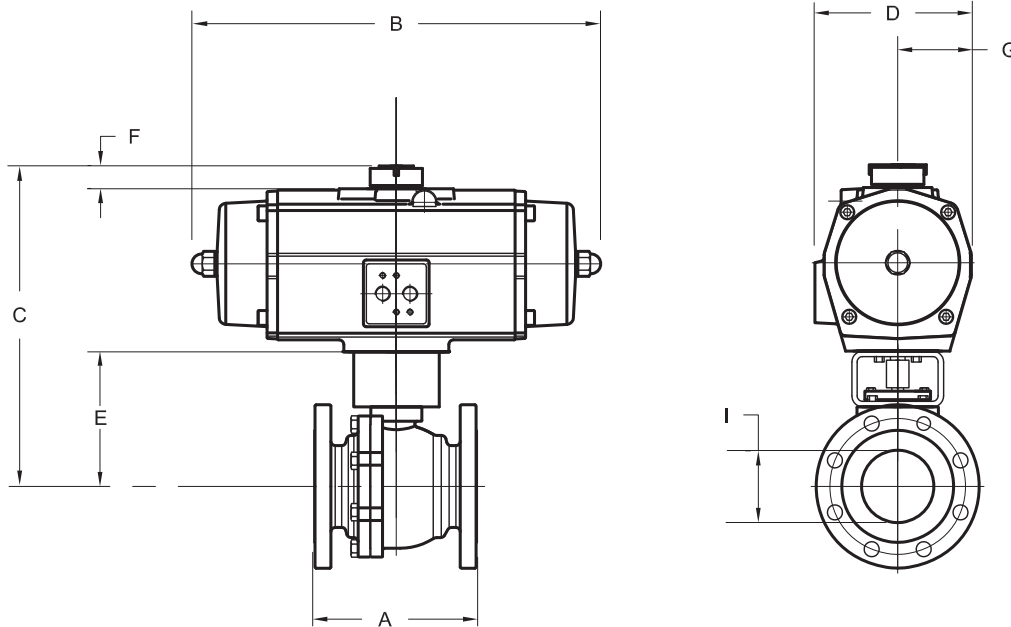
- E Series spring return rack and pinion pneumatic actuator
- Corrosion resistant coating
- NAMUR solenoid mounting pad, ISO 5211 mounting standard
- Visual position indicator
- High duty cycle, permanent lubrication
- Temperature range: -4°F to 175°F

150F_S ESR 3 - 8

Full port ball valve with spring return pneumatic actuator

150# Flanged 2-pc body 50/50 Seats

Actuators are sized for 150 psi pressure differential



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	C	D	E	F	G	I	Actuator	Wt.(lbs.)	Model No.
80 psig Minimum Actuator Air Supply = 8S											
3"	8.00	15.24	14.59	7.12	6.67	.79	3.41	3.00	ES350	84.8	J150F * S E8S ①
4"	9.00	20.35	19.78	9.51	8.40	1.18	4.54	4.00	ES950	157.1	K150F * S E8S ①
6"	15.50	22.44	26.40	14.17	11.20	1.18	6.89	5.98	PS2500	369.0	M150F * S E8S ①
8"	18.00	32.83	27.74	15.35	11.60	1.18	7.48	7.87	PS4000	572.0	N150F * S E8S ①
60 psig Minimum Actuator Air Supply = 6S											
3"	8.00	18.78	16.51	8.52	6.67	1.18	4.08	3.00	ES600	108.3	J150F * S E6S ①
4"	9.00	20.35	19.78	9.51	8.40	1.18	4.54	4.00	ES950	157.1	K150F * S E6S ①
6"	15.50	22.44	26.40	14.17	11.20	1.18	6.89	5.98	PS2500	369.0	M150F * S E6S ①
8"									N/A		

Note: Dimensions "C" & "E" include a 3" high mounting bracket on 3" valve and a 4" high mounting bracket on 4" - 8" valves

*C = Carbon Stl Body, 316SS Trim

*S = 316SS Body & Trim

① C=Fail Close, O=Fail Open

150 VALVE SPECIFICATIONS

- 150F Class 150
- Standard Steam Working Pressure: 150SWP, optional 300PSIG
- Protected Seat Design
- Fire Safe Designed to API607-5
- Spiral Wound Body Gasket w/Secondary metal to metal seat
- Carbon Steel or Stainless Steel Body
- Seats: 50/50
- Max Temp: 50/50 seats: 525°F

PNEUMATIC ACTUATOR FEATURES

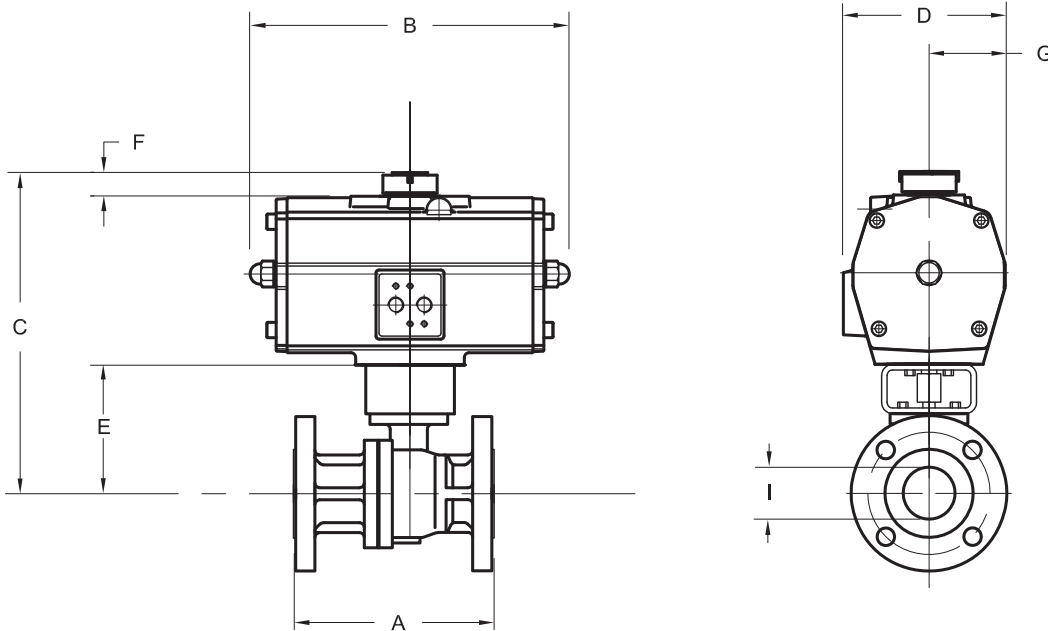
- E Series spring return rack and pinion pneumatic actuator
- Corrosion resistant coating
- NAMUR solenoid mounting pad, ISO 5211 mounting standard
- Visual position indicator
- High duty cycle, permanent lubrication
- Temperature range: -4°F to 175°F

150F_F EDA .5 - 2

Full port ball valve with double acting pneumatic actuator

150# Flanged 2-pc body TFM Seats

Actuators are sized for 150 psi pressure differential



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	C	D	E	F	G	I	Actuator	Wt.(lbs.)	Model No.
80 psig Minimum Actuator Air Supply = 8D											
1/2"	4.25	6.26	8.48	3.26	4.54	.79	1.46	.59	ED25	11.9	C150F * F E8D
3/4"	4.62	6.26	8.64	3.26	4.70	.79	1.46	.79	ED25	12.9	D150F * F E8D
1"	5.00	6.26	9.00	3.26	5.06	.79	1.46	.98	ED25	15.4	E150F * F E8D
1-1/2"	6.50	7.09	10.10	3.78	5.65	.79	1.70	1.50	ED40	23.5	G150F * F E8D
2"	7.00	7.83	18.82	4.19	5.90	.79	1.93	1.97	ED65	31.3	H150F * F E8D
60 psig Minimum Actuator Air Supply = 6D											
1/2"	4.25	6.26	11.78	3.26	4.54	.79	1.46	.59	ED25	11.9	C150F * F E6D
3/4"	4.62	6.26	11.94	3.26	4.70	.79	1.46	.79	ED25	12.9	D150F * F E6D
1"	5.00	6.26	12.30	3.26	5.06	.79	1.46	.98	ED25	15.4	E150F * F E6D
1-1/2"	6.50	7.83	13.40	4.19	5.65	.79	1.93	1.50	ED65	24.8	G150F * F E6D
2"	7.00	7.83	14.12	4.19	5.90	.79	1.93	1.97	ED65	31.3	H150F * F E6D

Note: Dimensions "C" & "E" include a 3" high mounting bracket

*C = Carbon Stl Body, 316SS Trim

*S = 316SS Body & Trim

150 VALVE SPECIFICATIONS

- 150F Class 150
- Standard Steam Working Pressure: 150SWP, optional 300PSIG
- Protected Seat Design
- Fire Safe Designed to API607-5
- Spiral Wound Body Gasket w/Secondary metal to metal seat
- Carbon Steel or Stainless Steel Body
- Seats: TFM
- Max Temp: TFM seats: 475°F

PNEUMATIC ACTUATOR FEATURES

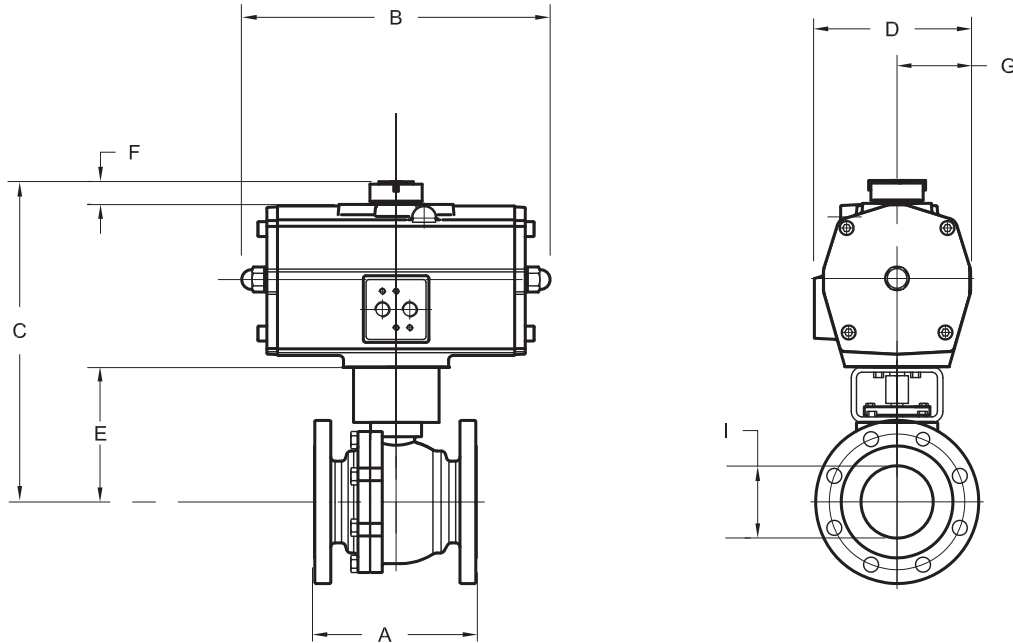
- E Series double acting rack and pinion pneumatic actuator
- Corrosion resistant coating
- NAMUR solenoid mounting pad, ISO 5211 mounting standard
- Visual position indicator
- High duty cycle, permanent lubrication
- Temperature range: -4°F to 175°F

150F_F EDA 3 - 8

Full port ball valve with double acting pneumatic actuator

150# Flanged 2-pc body TFM Seats

Actuators are sized for 150 psi pressure differential



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	C	D	E	F	G	I	Actuator	Wt.(lbs.)	Model No.
80 psig Minimum Actuator Air Supply = 8D											
3"	8.00	11.14	12.11	4.60	6.67	.79	2.12	3.00	ED100	54.3	J150F * F E8D
4"	9.00	11.14	14.82	5.39	8.40	.79	2.52	4.00	ED200	84.8	K150F * F E8D
6"	15.50	15.24	21.04	8.52	11.20	1.18	4.08	5.98	ED600	217.8	M150F * F E8D
8"	18.00	20.31	24.47	10.81	11.60	1.18	5.21	7.87	ED1600	366.1	N150F * F E8D
60 psig Minimum Actuator Air Supply = 6D											
3"	8.00	11.14	13.09	5.39	6.67	.79	2.52	3.00	ED200	60.3	J150F * F E6D
4"	9.00	12.01	16.32	7.12	8.40	.79	3.41	4.00	ED350	94.9	K150F * F E6D
6"	15.50	16.69	22.58	9.51	11.20	1.18	4.54	5.98	ED950	233.2	M150F * F E6D
8"	18.00	20.31	24.47	10.81	11.60	1.18	5.21	7.87	ED1600	366.1	M150F * F E6D

Note: Dimensions "C" & "E" include a 3" high mounting bracket on 3" valve and a 4" high mounting bracket on 4" - 8" valves

*C = Carbon Stl Body, 316SS Trim
 *S = 316SS Body & Trim

150 VALVE SPECIFICATIONS

- 150F Class 150
- Standard Steam Working Pressure: 150SWP, optional 300PSIG
- Protected Seat Design
- Fire Safe Designed to API607-5
- Spiral Wound Body Gasket w/Secondary metal to metal seat
- Carbon Steel or Stainless Steel Body
- Seats: TFM
- Max Temp: TFM seats: 475°F

PNEUMATIC ACTUATOR FEATURES

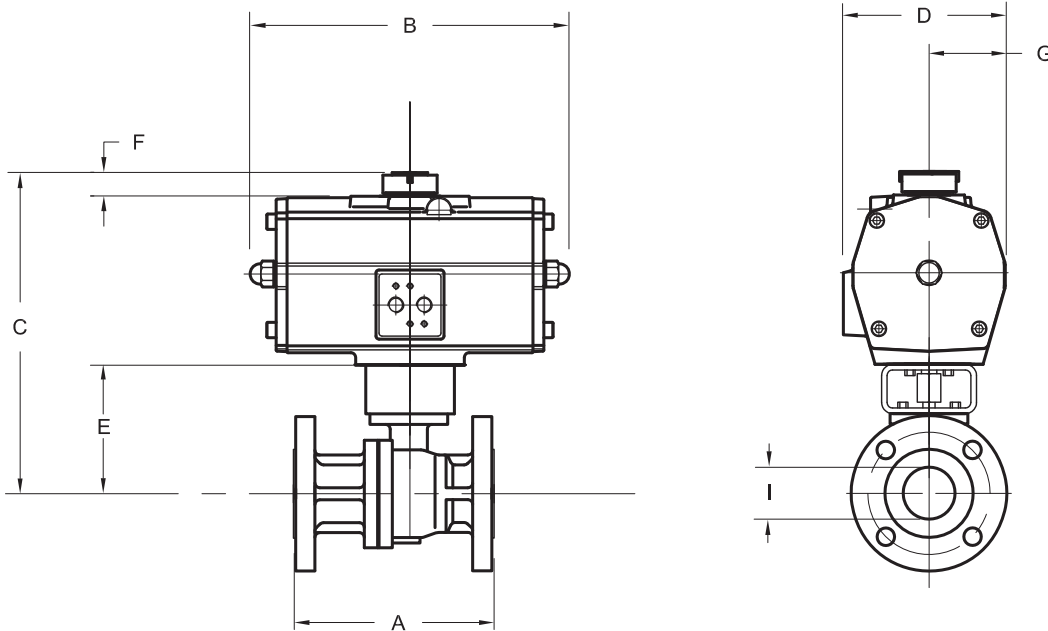
- E Series double acting rack and pinion pneumatic actuator
- Corrosion resistant coating
- NAMUR solenoid mounting pad, ISO 5211 mounting standard
- Visual position indicator
- High duty cycle, permanent lubrication
- Temperature range: -4°F to 175°F

150F_S EDA .5 - 2

Full port ball valve with double acting pneumatic actuator

150# Flanged 2-pc body 50/50 Seats

Actuators are sized for 150 psi pressure differential



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	C	D	E	F	G	I	Actuator	Wt.(lbs.)	Model No.
80 psig Minimum Actuator Air Supply = 8D											
1/2"	4.25	6.26	8.48	3.26	4.54	.79	1.46	.59	ED25	11.9	C150F * S E8D
3/4"	4.62	6.26	8.64	3.26	4.70	.79	1.46	.79	ED25	12.9	D150F * S E8D
1"	5.00	6.26	9.00	3.26	5.06	.79	1.46	.98	ED25	15.4	E150F * S E8D
1-1/2"	6.50	7.83	10.57	4.19	5.65	.79	1.93	1.50	ED65	24.8	G150F * S E8D
2"	7.00	7.83	10.82	4.19	5.90	.79	1.93	1.97	ED65	31.3	H150F * S E8D
60 psig Minimum Actuator Air Supply = 6D											
1/2"	4.25	6.26	8.48	3.26	4.54	.79	1.46	.59	ED25	11.9	C150F * S E6D
3/4"	4.62	6.26	8.64	3.26	4.70	.79	1.70	.79	ED25	12.9	D150F * S E6D
1"	5.00	6.26	9.00	3.26	5.06	.79	1.93	.98	ED25	15.4	E150F * S E6D
1-1/2"	6.50	7.83	10.57	4.19	5.65	.79	1.93	1.50	ED65	24.8	G150F * S E6D
2"	7.00	8.70	11.34	4.60	5.90	.79	2.12	1.97	ED100	32.8	H150F * S E6D

Note: Dimensions "C" & "E" include a 3" high mounting bracket

*C = Carbon Stl Body, 316SS Trim

*S = 316SS Body & Trim

150 VALVE SPECIFICATIONS

- 150F Class 150
- Standard Steam Working Pressure: 150SWP, optional 300PSIG
- Protected Seat Design
- Fire Safe Designed to API607-5
- Spiral Wound Body Gasket w/Secondary metal to metal seat
- Carbon Steel or Stainless Steel Body
- Seats: 50/50
- Max Temp: 50/50 seats: 525°F

PNEUMATIC ACTUATOR FEATURES

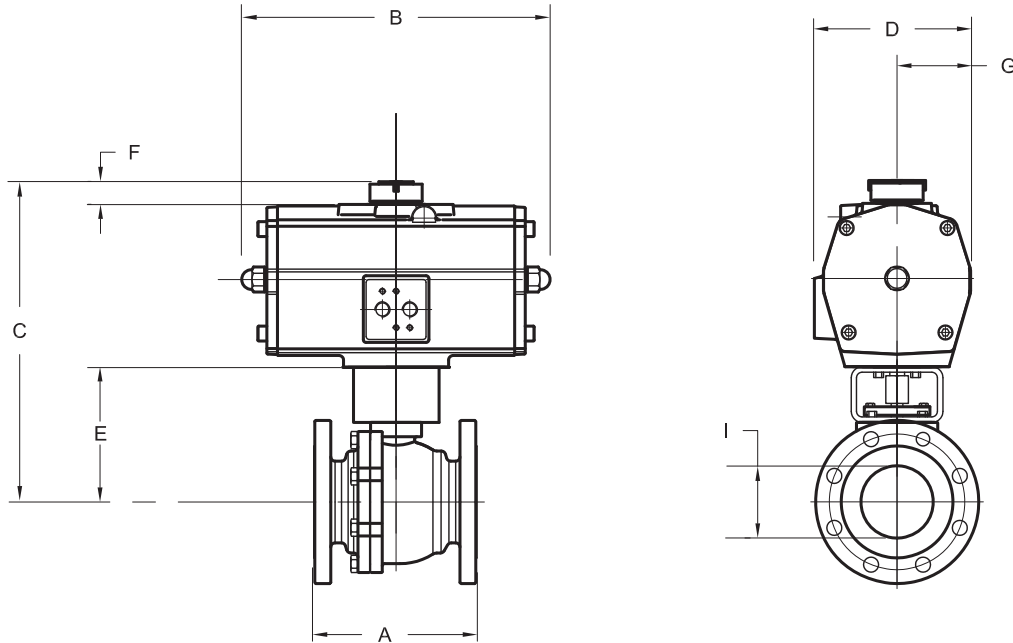
- E Series double acting rack and pinion pneumatic actuator
- Corrosion resistant coating
- NAMUR solenoid mounting pad, ISO 5211 mounting standard
- Visual position indicator
- High duty cycle, permanent lubrication
- Temperature range: -4°F to 175°F

150F_S EDA 3 - 8

Full port ball valve with double acting pneumatic actuator

150# Flanged 2-pc body 50/50 Seats

Actuators are sized for 150 psi pressure differential



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	C	D	E	F	G	I	Actuator	Wt.(lbs.)	Model No.
80 psig Minimum Actuator Air Supply = 8D											
3"	8.00	11.14	13.09	5.39	6.67	.79	2.52	3.00	ED200	60.3	J150F * S E8D
4"	9.00	12.01	16.32	7.12	8.40	.79	3.41	4.00	ED350	94.9	K150F * S E8D
6"	15.50	16.69	22.58	9.51	11.20	1.18	4.54	5.98	ED950	233.2	M150F * S E8D
8"	18.00	20.31	24.47	10.81	11.60	1.18	5.21	7.87	ED1600	366.1	N150F * S E8D
60 psig Minimum Actuator Air Supply = 6D											
3"	8.00	11.14	13.09	5.39	6.67	.79	2.52	3.00	ED200	60.3	J150F * S E6D
4"	9.00	12.01	16.32	7.12	8.40	.79	3.41	4.00	ED350	94.9	K150F * S E6D
6"	15.50	20.31	24.07	10.81	11.20	1.18	5.21	5.98	ED1600	269.1	M150F * S E6D
8"	18.00	14.88	26.80	14.17	11.60	1.18	6.89	7.87	PD2500	397.0	M150F * S E6D

Note: Dimensions "C" & "E" include a 3" high mounting bracket on 3" valve and a 4" high mounting bracket on 4" - 8" valves

*C = Carbon Stl Body, 316SS Trim
 *S = 316SS Body & Trim

150 VALVE SPECIFICATIONS

- 150F Class 150
- Standard Steam Working Pressure: 150SWP, optional 300PSIG
- Protected Seat Design
- Fire Safe Designed to API607-5
- Spiral Wound Body Gasket w/Secondary metal to metal seat
- Carbon Steel or Stainless Steel Body
- Seats: 50/50
- Max Temp: 50/50 seats: 525°F

PNEUMATIC ACTUATOR FEATURES

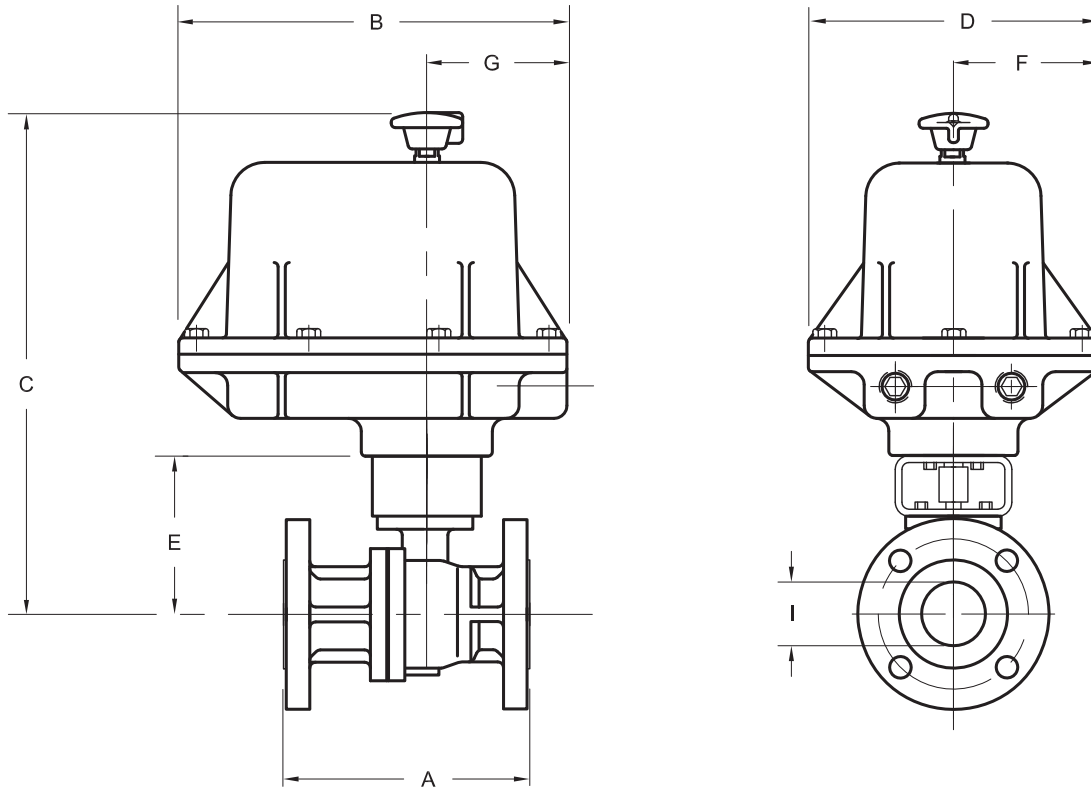
- E & P Series double acting rack and pinion pneumatic actuator
- Corrosion resistant coating
- NAMUR solenoid mounting pad, ISO 5211 mounting standard
- Visual position indicator
- High duty cycle, permanent lubrication
- Temperature range: -4°F to 175°F

150F_F B7A .5 - 2

Full port ball valve with electric actuator, NEMA 7, 120vac

150# Flanged 2-pc body TFM Seats

Actuators are sized for 150 psi pressure differential



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	C	D	E	F	G	I	Actuator	Wt.(lbs.)	Model No.
1/2"	4.25	8.25	12.04	6.25	4.54	3.12	3.75	.59	EM310-30	27.0	C150F * F B7A
3/4"	4.62	8.25	12.16	6.25	4.66	3.12	3.75	.79	EM310-30	28.0	D150F * F B7A
1"	5.00	8.25	12.55	6.25	5.05	3.12	3.75	.98	EM310-30	30.5	E150F * F B7A
1-1/2"	6.50	8.25	13.10	6.25	5.60	3.12	3.75	1.50	EM310-30	37.5	G150F * F B7A
2"	7.00	8.25	13.40	6.25	5.90	3.12	3.75	1.97	EM310-30	44.0	H150F * F B7A

Note: Dimensions "C" & "E" include a 3" high mounting bracket

*C = Carbon Stl Body, 316SS Trim

*S = 316SS Body & Trim

150 VALVE SPECIFICATIONS

- 150F Class 150
- Standard Steam Working Pressure: 150SWP, optional 300PSIG
- Protected Seat Design
- Fire Safe Designed to API607-5
- Spiral Wound Body Gasket w/Secondary metal to metal seat
- Carbon Steel or Stainless Steel Body
- Seats: TFM
- Max Temp: TFM seats: 475°F

ELECTRIC ACTUATOR FEATURES

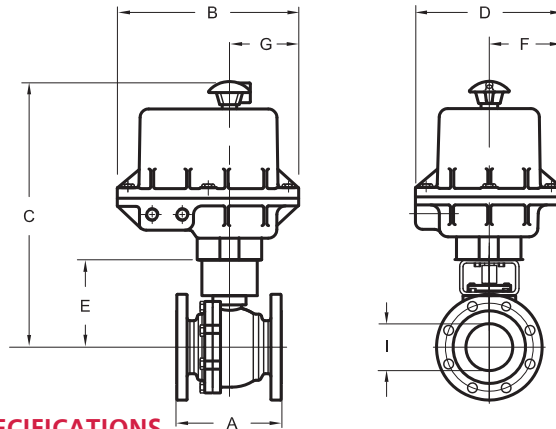
- B7 Series electric actuator
- NEMA 4, 4x, 7, & 9; CSA approved
- Weatherproof
- Class I Groups C and D, Div. 1
- Class II Groups E, F, & G
- (2) 1/2" NPT conduit entries
- Manual override
- Visual position Indicator
- CSA certified
- Temperature range: 0°F to 175°F

150F_F B7A 3 - 8

Full port ball valve with electric actuator, NEMA 7, 120vac

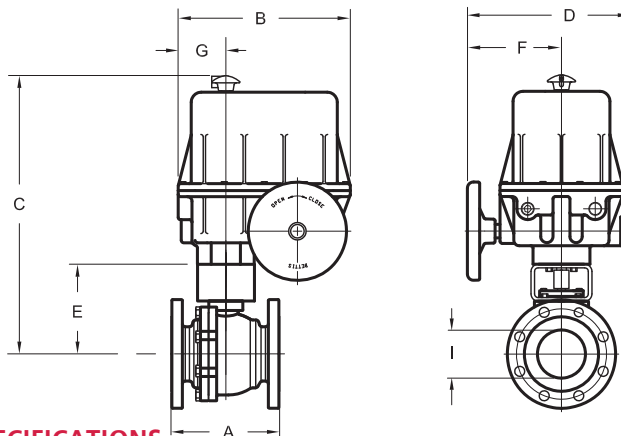
150# Flanged 2-pc body TFM Seats

Actuators are sized for 150 psi pressure differential



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	C	D	E	F	G	I	Actuator	Wt.(lbs.)	Model No.
3"	8.00	9.75	16.11	7.75	6.67	3.88	3.75	3.00	EM500-30	65.5	J150F * F B7A



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	C	D	E	F	G	I	Actuator	Wt.(lbs.)	Model No.
4"	9.00	14.00	23.72	13.31	8.40	7.62	3.88	4.00	EM810-30	232.0	K150F * F B7A
6"	15.50	14.00	23.72	13.31	11.20	7.62	3.88	5.98	EM820-30	335.0	M150F * F B7A
8"	18.00	14.00	23.72	13.31	11.60	7.62	3.88	7.87	EM840-48	432.0	N150F * F B7A

Note: Dimensions "C " & "E" include a 3" high mounting bracket on 3" valve and a 4" high mounting bracket on 4" - 8" valves

*C = Carbon Stl Body, 316SS Trim

*S = 316SS Body & Trim

150 VALVE SPECIFICATIONS

- 150F Class 150
- Standard Steam Working Pressure: 150SWP, optional 300PSIG
- Protected Seat Design
- Fire Safe Designed to API607-5
- Spiral Wound Body Gasket w/Secondary metal to metal seat
- Carbon Steel or Stainless Steel Body
- Seats: TFM
- Max Temp: TFM seats: 475°F

ELECTRIC ACTUATOR FEATURES

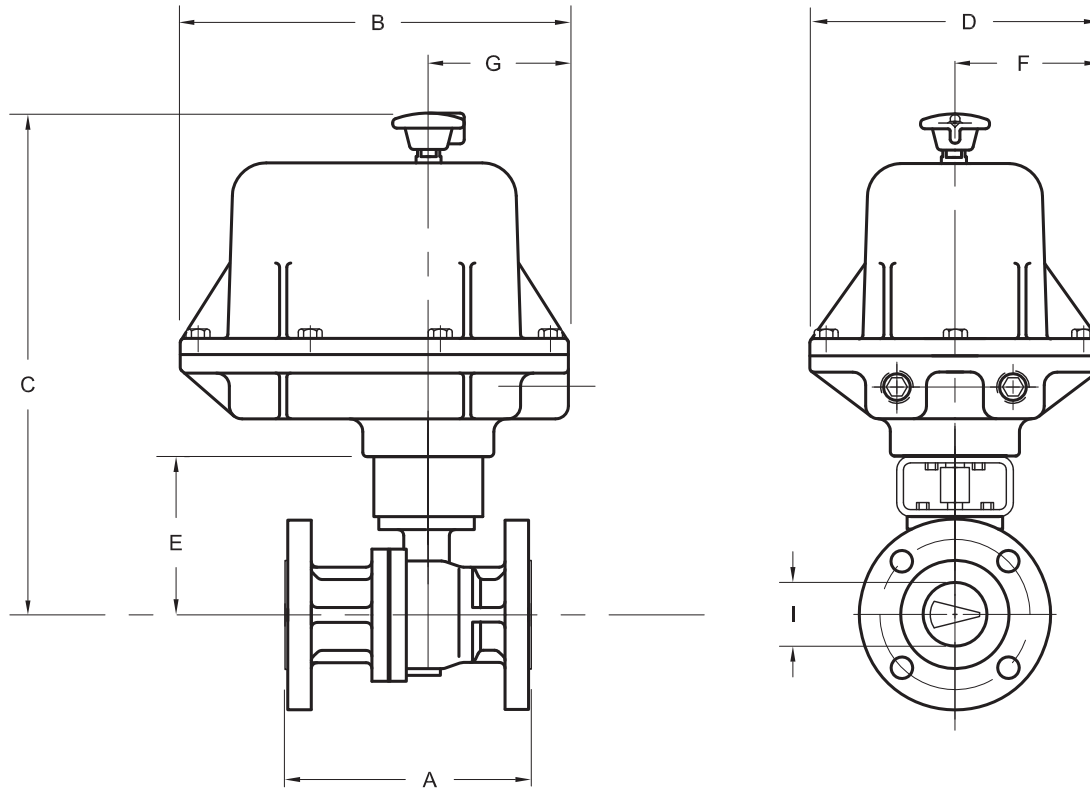
- B7 Series electric actuator
- NEMA 4, 4x, 7, & 9; CSA approved
- Weatherproof
- Class I Groups C and D, Div. 1
- Class II Groups E, F, & G
- (2) 1/2" NPT conduit entries
- Manual override
- Visual position Indicator
- CSA certified
- Temperature range: 0°F to 175°F

150F_S B7A .5 - 1.5

Full port ball valve with electric actuator, NEMA 7, 120vac

150# Flanged 2-pc body 50/50 Seats

Actuators are sized for 150 psi pressure differential



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	C	D	E	F	G	I	Actuator	Wt.(lbs.)	Model No.
1/2"	4.25	8.25	12.04	6.25	4.54	3.12	3.75	.59	EM310-30	27.0	C150F * S B7A
3/4"	4.62	8.25	12.16	6.25	4.66	3.12	3.75	.79	EM310-30	28.0	D150F * S B7A
1"	5.00	8.25	12.55	6.25	5.05	3.12	3.75	.98	EM310-30	30.5	E150F * S B7A
1-1/2"	6.50	8.25	13.10	6.25	5.60	3.12	3.75	1.50	EM310-30	37.5	G150F * S B7A

Note: Dimensions "C" & "E" include a 3" high mounting bracket

*C = Carbon Stl Body, 316SS Trim

*S = 316SS Body & Trim

150 VALVE SPECIFICATIONS

- 150F Class 150
- Standard Steam Working Pressure: 150SWP, optional 300PSIG
- Protected Seat Design
- Fire Safe Designed to API607-5
- Spiral Wound Body Gasket w/Secondary metal to metal seat
- Carbon Steel or Stainless Steel Body
- Seats: 50/50
- Max Temp: 50/50 seats: 525°F

ELECTRIC ACTUATOR FEATURES

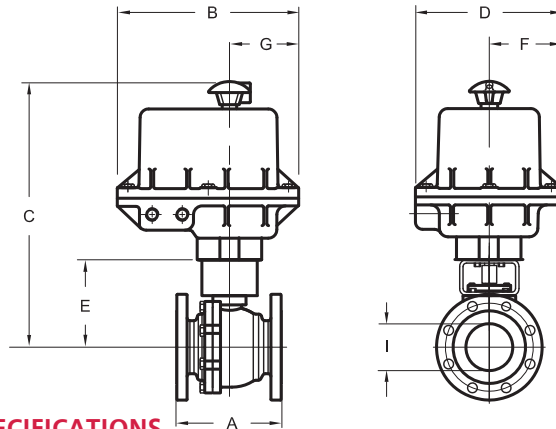
- B7 Series electric actuator
- NEMA 4, 4x, 7, & 9; CSA approved
- Weatherproof
- Class I Groups C and D, Div. 1
- Class II Groups E, F, & G
- (2) 1/2" NPT conduit entries
- Manual override
- Visual position Indicator
- CSA certified
- Temperature range: 0°F to 175°F

150F_S B7A 2 - 8

Full port ball valve with electric actuator, NEMA 7, 120vac

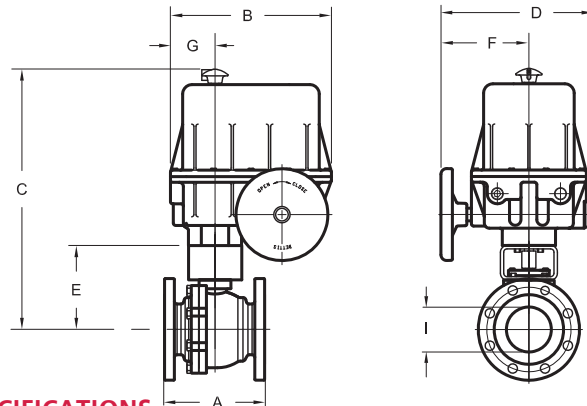
150# Flanged 2-pc body 50/50 Seats

Actuators are sized for 150 psi pressure differential



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	C	D	E	F	G	I	Actuator	Wt.(lbs.)	Model No.
2"	7.00	9.75	15.34	7.75	5.90	3.88	3.75	1.97	EM520-15	44.0	H150F * S B7A
3"	8.00	9.75	16.11	7.75	6.67	3.88	3.75	3.00	EM500-30	65.5	J150F * S B7A



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	C	D	E	F	G	I	Actuator	Wt.(lbs.)	Model No.
4"	9.00	14.00	23.72	13.31	8.40	7.62	3.88	4.00	EM810-30	232.0	K150F * S B7A
6"	15.50	14.00	23.72	13.31	11.20	7.62	3.88	5.98	EM830-30	335.0	M150F * S B7A
8"	18.00	14.00	23.72	13.31	11.60	7.62	3.88	7.87	EM840-72	432.0	N150F * S B7A

Note: Dimensions "C " & "E" include a 3" high mounting bracket on 2" & 3" valve and a 4" high mounting bracket on 4" - 8" valves

*C = Carbon Stl Body, 316SS Trim
 *S = 316SS Body & Trim

150 VALVE SPECIFICATIONS

- 150F Class 150
- Standard Steam Working Pressure: 150SWP, optional 300PSIG
- Protected Seat Design
- Fire Safe Designed to API607-5
- Spiral Wound Body Gasket w/Secondary metal to metal seat
- Carbon Steel or Stainless Steel Body
- Seats: 50/50
- Max Temp: 50/50 seats: 525°F

ELECTRIC ACTUATOR FEATURES

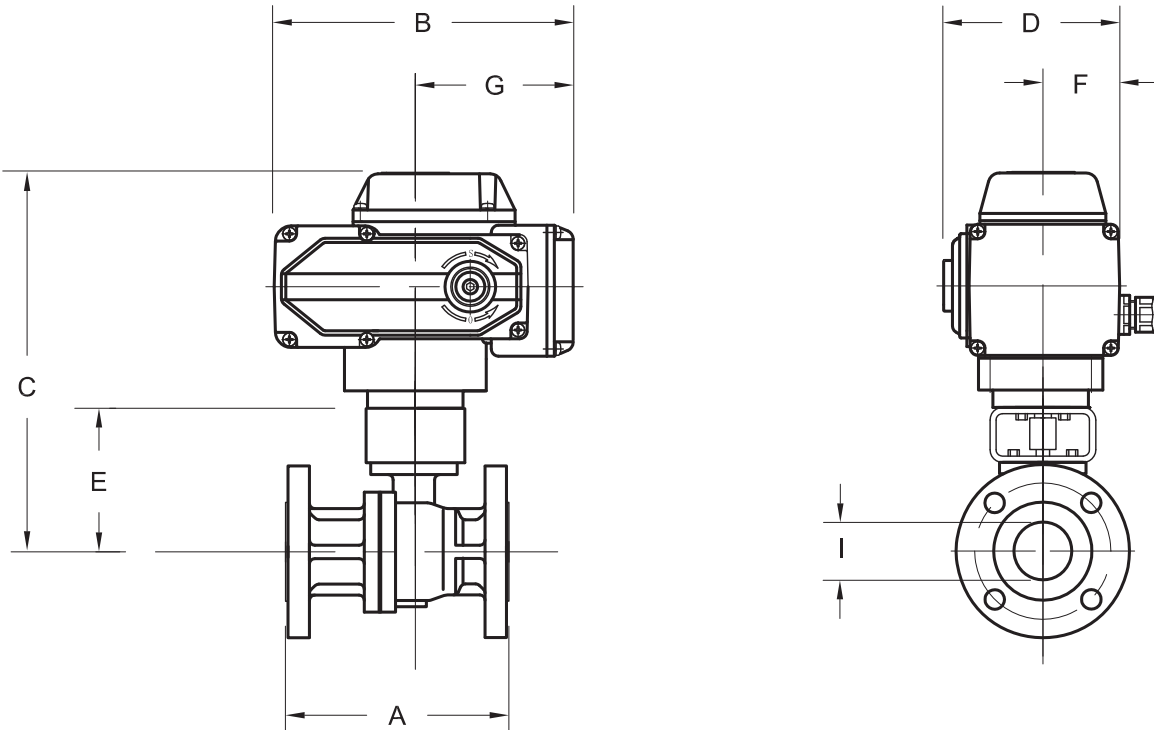
- B7 Series electric actuator
- NEMA 4, 4x, 7, & 9; CSA approved
- Weatherproof
- Class I Groups C and D, Div. 1
- Class II Groups E, F, & G
- (2) 1/2" NPT conduit entries
- Manual override
- Visual position Indicator
- CSA certified
- Temperature range: 0°F to 175°F

150F_F K4A .5 - 2

Full port ball valve with electric actuator

150# Flanged 2-pc body TFM Seats

Actuators are sized for 150 psi pressure differential



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	C	D	E	F	G	I	Actuator	Wt.(lbs.)	Model No.
1/2"	4.25	6.24	8.62	4.51	4.54	2.00	2.99	.59	UNIC 05A	14.0	C150F * F K4A
3/4"	4.62	6.24	8.74	4.51	4.66	2.00	2.99	.79	UNIC 05A	15.0	D150F * F K4A
1"	5.00	6.24	9.13	4.51	5.05	2.00	2.99	.98	UNIC 05A	17.5	E150F * F K4A
1-1/2"	6.50	6.24	9.73	4.51	5.65	2.00	2.99	1.50	UNIC 05A	24.5	G150F * F K4A
2"	7.00	8.17	12.39	4.82	5.90	2.14	4.33	1.97	UNIC 10A	36.0	H150F * F K4A

Note: Dimensions "C" & "E" include a 3" high mounting bracket

*C = Carbon Stl Body, 316SS Trim

*S = 316SS Body & Trim

150 VALVE SPECIFICATIONS

- 150F Class 150
- Standard Steam Working Pressure: 150SWP, optional 300PSIG
- Protected Seat Design
- Fire Safe Designed to API607-5
- Spiral Wound Body Gasket w/Secondary metal to metal seat
- Carbon Steel or Stainless Steel Body
- Seats: TFM
- Max Temp: TFM seats: 475°F

ELECTRIC ACTUATOR FEATURES

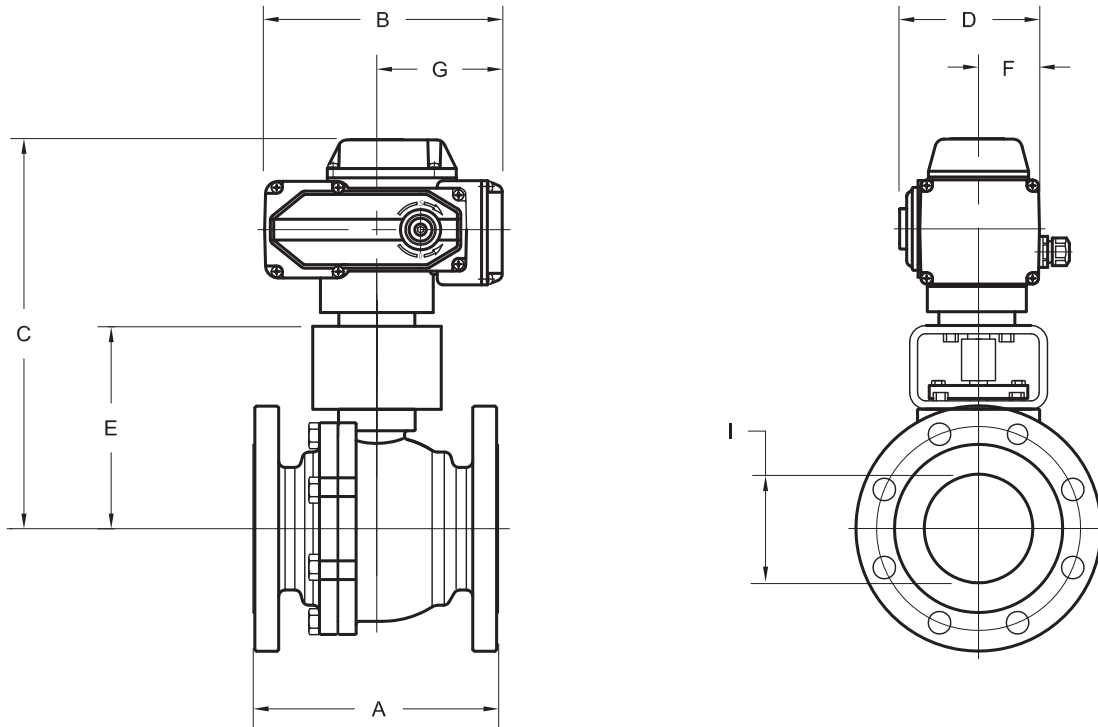
- K Series electric actuator
- Actuator speed: 25 sec.
- Most voltages available
- Quarter turn: 0-90° rotation
- NEMA 4/4X certified by UL labs
- ISO 5211 mounting standard
- Visual position indicator
- Self-locking drive train
- Mounts in any direction
- 1/2" NPT conduit connection
- CSA-NRTL /C and CE certified
- Temperature range: 0°F to 160°F

150F_F K4A 3 - 8

Full port ball valve with electric actuator

150# Flanged 2-pc body TFM Seats

Actuators are sized for 150 psi pressure differential



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	C	D	E	F	G	I	Actuator	Wt.(lbs.)	Model No.
3"	8.00	10.10	13.95	6.16	6.67	2.46	5.25	3.00	UNIC 20A	65.5	J150F * F K4A
4"	9.00	10.10	15.68	6.16	8.40	2.46	5.25	4.00	UNIC 40A	90.0	K150F * F K4A
6"	15.50	15.00	20.41	9.53	11.20	4.13	7.85	5.98	UNIC 60A	221.2	M150F * F K4A
8"	18.00	15.00	20.81	9.98	11.60	4.13	7.85	7.87	UNIC 200A	324.9	N150F * F K4A

Note: Dimensions "C" & "E" include a 3" high mounting bracket on 3" valve and a 4" high mounting bracket on 4" - 8" valves

*C = Carbon Stl Body, 316SS Trim

*S = 316SS Body & Trim

150 VALVE SPECIFICATIONS

- 150F Class 150
- Standard Steam Working Pressure: 150SWP, optional 300PSIG
- Protected Seat Design
- Fire Safe Designed to API607-5
- Spiral Wound Body Gasket w/Secondary metal to metal seat
- Carbon Steel or Stainless Steel Body
- Seats: TFM
- Max Temp: TFM seats: 475°F

ELECTRIC ACTUATOR FEATURES

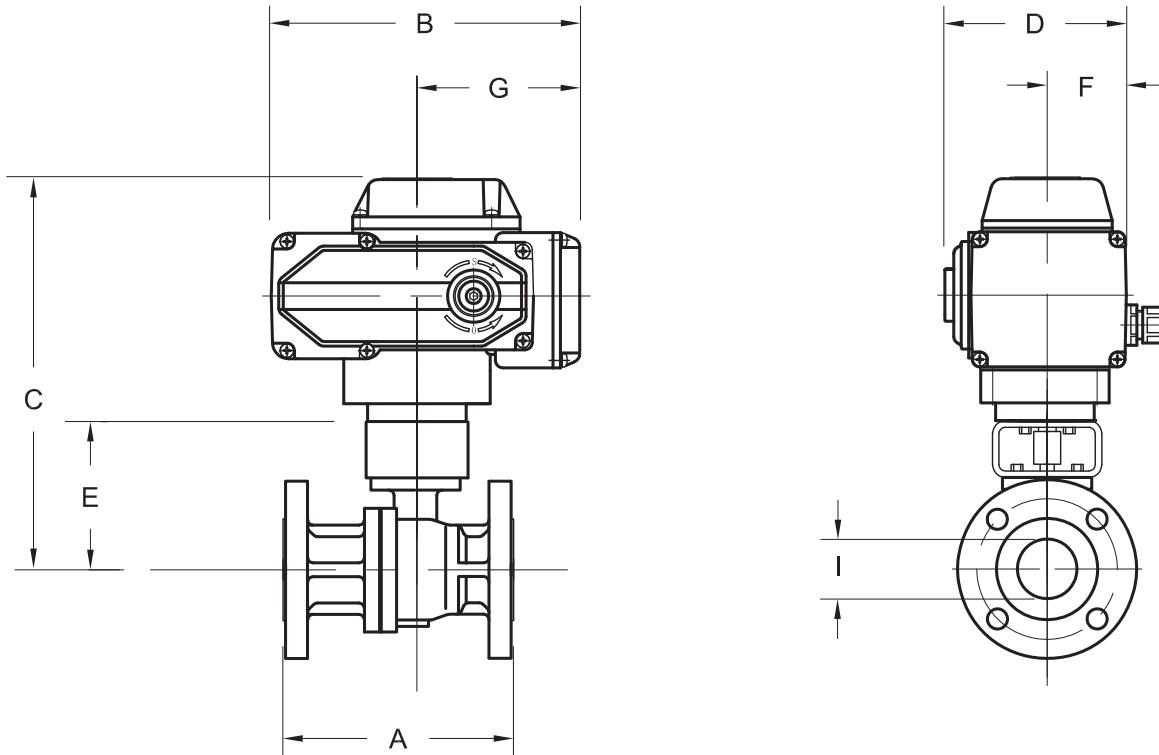
- K Series electric actuator
- Actuator speed: 25 sec.
- Most voltages available
- Quarter turn: 0-90° rotation
- NEMA 4/4X certified by UL labs
- ISO 5211 mounting standard
- Visual position indicator
- Self-locking drive train
- Mounts in any direction
- 1/2" NPT conduit connection
- CSA-NRTL /C and CE certified
- Temperature range: 0°F to 160°F

150F_S K4A .5 - 2

Full port ball valve with electric actuator

150# Flanged 2-pc body 50/50 Seats

Actuators are sized for 150 psi pressure differential



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	C	D	E	F	G	I	Actuator	Wt.(lbs.)	Model No.
1/2"	4.25	6.24	9.25	4.51	4.54	2.00	2.99	.59	UNIC 05A	14.0	C150F * S K4A
3/4"	4.62	6.24	9.37	4.51	4.66	2.00	2.99	.79	UNIC 05A	15.0	D150F * S K4A
1"	5.00	6.24	9.76	4.51	5.05	2.00	2.99	.98	UNIC 05A	17.5	E150F * S K4A
1-1/2"	6.50	8.17	12.09	4.82	5.65	1.62	4.33	1.50	UNIC 10A	29.5	G150F * S K4A
2"	7.00	8.17	13.16	4.82	5.90	1.62	4.33	1.97	UNIC 10A	36.0	H150F * S K4A

Note: Dimensions "C" & "E" include a 3" high mounting bracket

*C = Carbon Stl Body, 316SS Trim

*S = 316SS Body & Trim

150 VALVE SPECIFICATIONS

- 150F Class 150
- Standard Steam Working Pressure: 150SWP, optional 300PSIG
- Protected Seat Design
- Fire Safe Designed to API607-5
- Spiral Wound Body Gasket w/Secondary metal to metal seat
- Carbon Steel or Stainless Steel Body
- Seats: 50/50
- Max Temp: 50/50 seats: 525°F

ELECTRIC ACTUATOR FEATURES

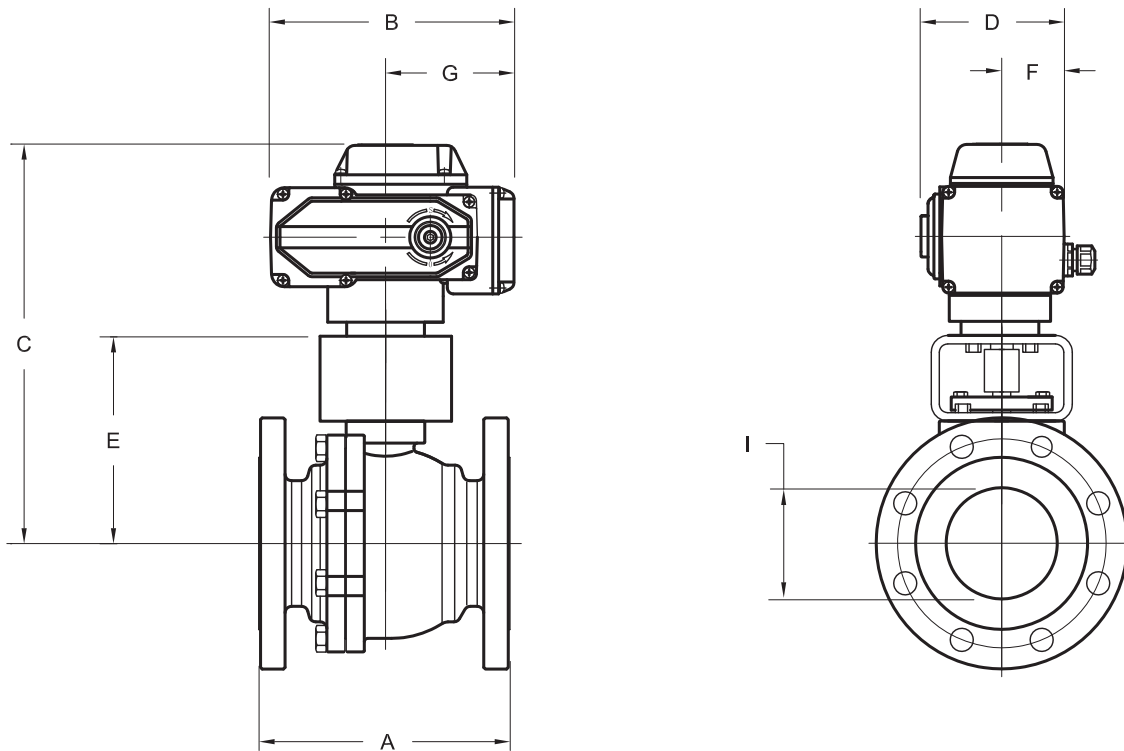
- K Series electric actuator
- Actuator speed: 25 sec.
- Most voltages available
- Quarter turn: 0-90° rotation
- NEMA 4/4X certified by UL labs
- ISO 5211 mounting standard
- Visual position indicator
- Self-locking drive train
- Mounts in any direction
- 1/2" NPT conduit connection
- CSA-NRTL /C and CE certified
- Temperature range: 0°F to 160°F

150F_S K4A 3 - 8

Full port ball valve with electric actuator

150# Flanged 2-pc body 50/50 Seats

Actuators are sized for 150 psi pressure differential



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	C	D	E	F	G	I	Actuator	Wt.(lbs.)	Model No.
3"	8.00	10.10	13.95	6.16	6.67	2.46	5.25	3.00	UNIC 20A	65.5	J150F * S K4A
4"	9.00	15.00	15.68	6.16	8.40	2.46	5.25	4.00	UNIC 40A	90.0	K150F * S K4A
6"	15.50	15.00	20.41	9.53	11.20	4.13	7.85	5.98	UNIC 100A	222.7	M150F * S K4A
8"	18.00	15.00	20.81	9.98	11.60	4.13	7.85	7.87	UNIC 200A	324.9	N150F * S K4A

Note: Dimensions "C" & "E" include a 3" high mounting bracket on 3" valve and a 4" high mounting bracket on 4" - 8" valves

*C = Carbon Stl Body, 316SS Trim

*S = 316SS Body & Trim

150 VALVE SPECIFICATIONS

- 150F Class 150
- Standard Steam Working Pressure: 150SWP, optional 300PSIG
- Protected Seat Design
- Fire Safe Designed to API607-5
- Spiral Wound Body Gasket w/Secondary metal to metal seat
- Carbon Steel or Stainless Steel Body
- Seats: 50/50
- Max Temp: 50/50 seats: 525°F

ELECTRIC ACTUATOR FEATURES

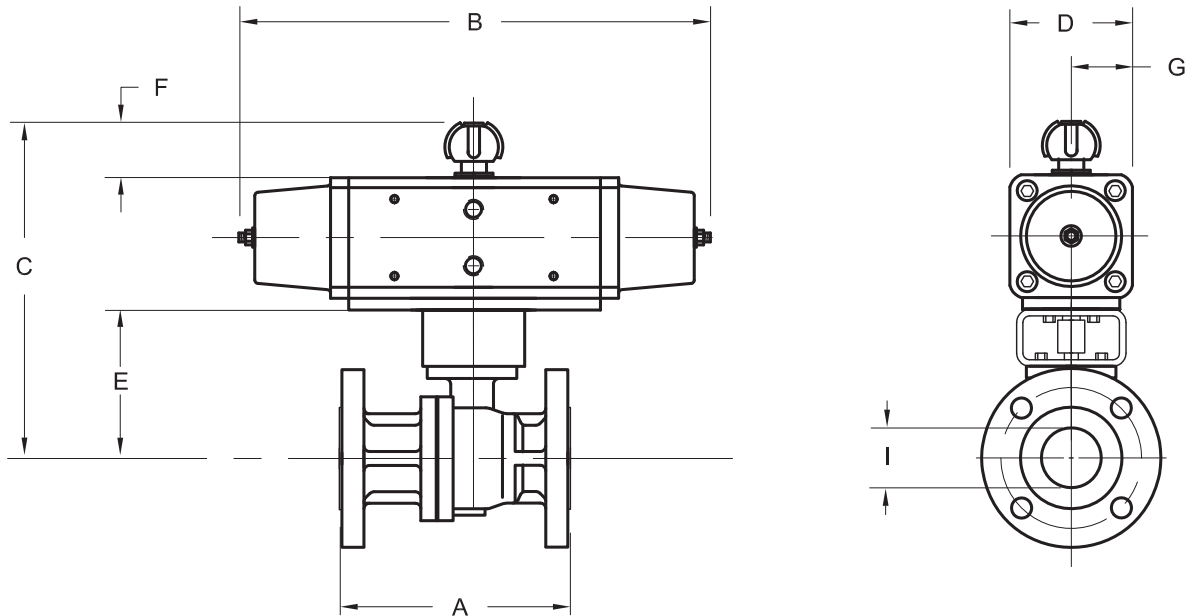
- K Series electric actuator
- Actuator speed: 25 sec.
- Most voltages available
- Quarter turn: 0-90° rotation
- NEMA 4/4X certified by UL labs
- ISO 5211 mounting standard
- Visual position indicator
- Self-locking drive train
- Mounts in any direction
- 1/2" NPT conduit connection
- CSA-NRTL /C and CE certified
- Temperature range: 0°F to 160°F

300F_F OSR .5 - 2

Full port ball valve with spring return pneumatic actuator

300# Flanged 2-pc body TFM Seats

Actuators are sized for 150 psi pressure differential



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	C	D	E	F	G	I	Actuator	Wt.(lbs.)	Model No.
80 psig Minimum Actuator Air Supply = 8S											
1/2"	5.50	8.71	7.77	2.17	4.54	.79	1.08	.59	PS015	12.9	C300F * F O8S ①
3/4"	6.00	9.45	8.24	2.56	4.70	.79	1.28	.79	PS030	16.4	D300F * F O8S ①
1"	6.50	9.45	8.60	2.56	5.06	.79	1.28	.98	PS030	19.4	E300F * F O8S ①
1-1/2"	7.50	12.60	10.21	3.15	5.65	1.18	1.57	1.50	PS060	31.7	G300F * F O8S ①
2"	8.50	14.06	10.86	3.54	5.90	1.18	1.77	1.97	PS090	40.1	H300F * F O8S ①
60 psig Minimum Actuator Air Supply = 6S											
1/2"	5.50	9.45	8.08	2.56	4.54	.79	1.28	.59	PS030	14.4	C300F * F O6S ①
3/4"	6.00	9.45	8.24	2.56	4.70	.79	1.28	.79	PS030	16.4	D300F * F O6S ①
1"	6.50	9.45	8.60	2.56	5.06	.79	1.28	.98	PS030	19.4	E300F * F O6S ①
1-1/2"	7.50	14.06	10.61	3.54	5.65	1.18	1.77	1.50	PS090	34.1	G300F * F O6S ①
2"	8.50	14.06	10.86	3.54	5.90	1.18	1.77	1.97	PS090	40.1	H300F * F O6S ①

Note: Dimensions "C" & "E" include a 3" high mounting bracket

*C = Carbon Stl Body, 316SS Trim

*S = 316SS Body & Trim

① C=Fail Close, O=Fail Open

300 VALVE SPECIFICATIONS

- 300F Class 300
- Standard Steam Working Pressure: 150SWP, optional 300PSIG
- Protected Seat Design
- Fire Safe Designed to API607-5
- Spiral Wound Body Gasket w/Secondary metal to metal seat
- Carbon Steel or Stainless Steel Body
- Seats: TFM
- Max Temp: TFM seats: 475°F

PNEUMATIC ACTUATOR FEATURES

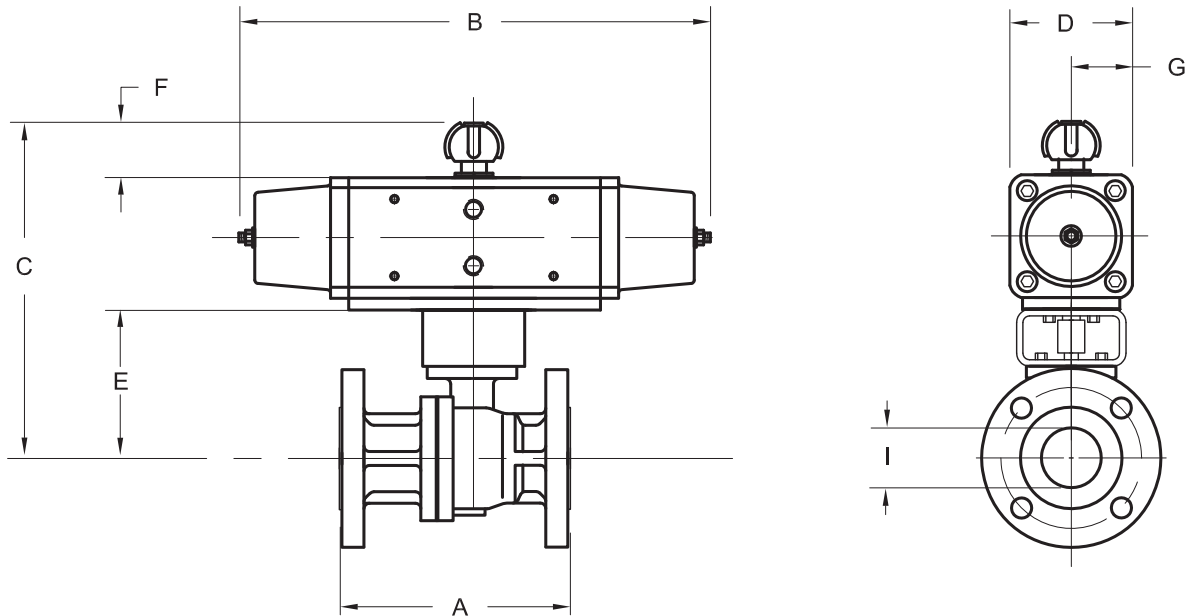
- O Series spring return pneumatic actuator
- Corrosion resistant coating
- NAMUR solenoid mounting pad, ISO 5211 mounting standard
- Visual position indicator
- High duty cycle, permanent lubrication
- Temperature range: -4°F to 175°F

300F_S OSR .5 - 2

Full port ball valve with spring return pneumatic actuator

300# Flanged 2-pc body 50/50 Seats

Actuators are sized for 150 psi pressure differential



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	C	D	E	F	G	I	Actuator	Wt.(lbs.)	Model No.
80 psig Minimum Actuator Air Supply = 8S											
1/2"	5.50	9.45	8.08	2.56	4.54	.79	1.28	.59	PS030	14.4	C300F * S O8S ①
3/4"	6.00	9.45	8.24	2.56	4.70	.79	1.28	.79	PS030	16.4	D300F * S O8S ①
1"	6.50	9.45	8.60	2.56	5.06	.79	1.28	.98	PS030	19.4	E300F * S O8S ①
1-1/2"	7.50	14.06	10.61	3.54	5.65	1.18	1.77	1.50	PS090	34.1	G300F * S O8S ①
2"	8.50	14.65	11.25	3.94	5.90	1.18	1.97	1.97	PS120	44.7	H300F * S O8S ①
60 psig Minimum Actuator Air Supply = 6S											
1/2"	5.50	9.45	8.08	2.56	4.54	.79	1.28	.59	PS030	14.4	C300F * S O6S ①
3/4"	6.00	11.58	8.54	2.83	4.70	.79	1.41	.79	PS045	17.3	D300F * S O6S ①
1"	6.50	11.58	8.90	2.83	5.06	.79	1.41	.98	PS045	20.3	E300F * S O6S ①
1-1/2"	7.50	14.65	11.00	3.94	5.65	1.18	1.97	1.50	PS120	38.7	G300F * S O6S ①
2"	8.50	17.18	11.72	4.41	5.90	1.18	2.20	1.97	PS180	50.7	H300F * S O6S ①

Note: Dimensions "C" & "E" include a 3" high mounting bracket

*C = Carbon Stl Body, 316SS Trim

*S = 316SS Body & Trim

① C=Fail Close, O=Fail Open

300 VALVE SPECIFICATIONS

- 300F Class 300
- Standard Steam Working Pressure: 150SWP, optional 300PSIG
- Protected Seat Design
- Fire Safe Designed to API607-5
- Spiral Wound Body Gasket w/Secondary metal to metal seat
- Carbon Steel or Stainless Steel Body
- Seats: 50/50
- Max Temp: 50/50 seats: 525°F

PNEUMATIC ACTUATOR FEATURES

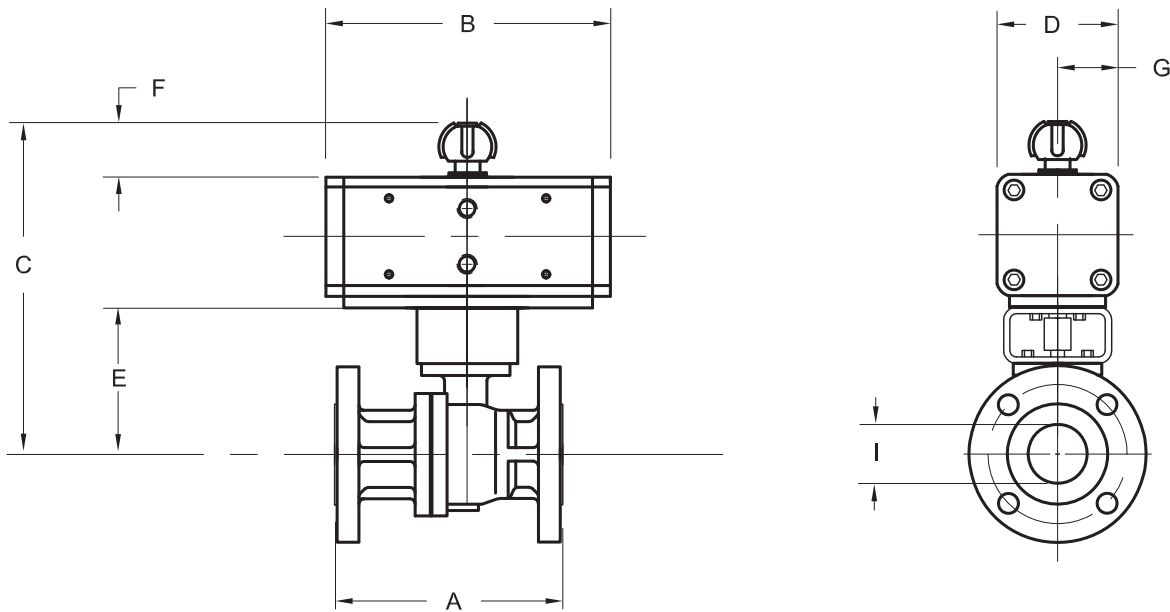
- O Series spring return pneumatic actuator
- Corrosion resistant coating
- NAMUR solenoid mounting pad, ISO 5211 mounting standard
- Visual position indicator
- High duty cycle, permanent lubrication
- Temperature range: -4°F to 175°F

300F_F ODA .5 - 2

Full port ball valve with double acting pneumatic actuator

300# Flanged 2-pc body TFM Seats

Actuators are sized for 150 psi pressure differential



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	C	D	E	F	G	I	Actuator	Wt.(lbs.)	Model No.
80 psig Minimum Actuator Air Supply = 8D											
1/2"	5.50	5.12	7.69	2.17	4.54	.79	1.08	.59	PD030	12.2	C300F * F O8D
3/4"	6.00	5.12	7.85	2.17	4.70	.79	1.08	.79	PD030	14.2	D300F * F O8D
1"	6.50	5.12	8.21	2.17	5.06	.79	1.08	.98	PD030	17.2	E300F * F O8D
1-1/2"	7.50	5.98	9.19	2.56	5.65	.79	1.28	1.50	PD060	27.4	G300F * F O8D
2"	8.50	6.65	9.74	2.83	5.90	.79	1.41	1.97	PD090	34.1	H300F * F O8D
60 psig Minimum Actuator Air Supply = 6D											
1/2"	5.50	5.12	7.69	2.17	4.54	.79	1.08	.59	PD030	12.2	C300F * F O6D
3/4"	6.00	5.12	7.85	2.17	4.70	.79	1.08	.79	PD030	14.2	D300F * F O6D
1"	6.50	5.12	8.21	2.17	5.06	.79	1.08	.98	PD030	17.2	E300F * F O6D
1-1/2"	7.50	6.65	9.49	2.83	5.65	.79	1.41	1.50	PD090	28.1	G300F * F O6D
2"	8.50	7.24	10.46	3.15	5.90	1.18	1.57	1.97	PD120	36.2	H300F * F O6D

Note: Dimensions "C" & "E" include a 3" high mounting bracket

*C = Carbon Stl Body, 316SS Trim

*S = 316SS Body & Trim

300 VALVE SPECIFICATIONS

- 300F Class 300
- Standard Steam Working Pressure: 150SWP, optional 300PSIG
- Protected Seat Design
- Fire Safe Designed to API607-5
- Spiral Wound Body Gasket w/Secondary metal to metal seat
- Carbon Steel or Stainless Steel Body
- Seats: TFM
- Max Temp: TFM seats: 475°F

PNEUMATIC ACTUATOR FEATURES

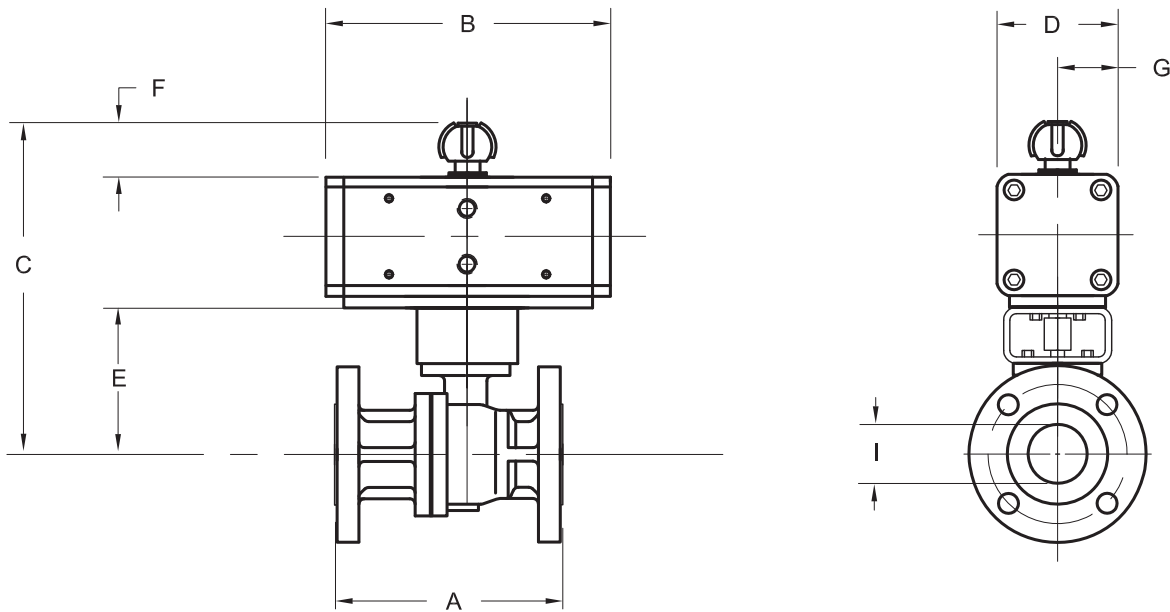
- O Series double acting pneumatic actuator
- Corrosion resistant coating
- NAMUR solenoid mounting pad, ISO 5211 mounting standard
- Visual position indicator
- High duty cycle, permanent lubrication
- Temperature range: -4°F to 175°F

300F_S ODA .5 - 2

Full port ball valve with double acting pneumatic actuator

300# Flanged 2-pc body 50/50 Seats

Actuators are sized for 150 psi pressure differential



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	C	D	E	F	G	I	Actuator	Wt.(lbs.)	Model No.
80 psig Minimum Actuator Air Supply = 8D											
1/2"	5.50	5.12	7.69	2.17	4.54	.79	1.08	.59	PD030	12.2	C300F * S O8D
3/4"	6.00	5.12	7.85	2.17	4.70	.79	1.08	.79	PD030	14.2	D300F * S O8D
1"	6.50	5.67	8.43	2.36	5.06	.79	1.18	.98	PD045	17.8	E300F * S O8D
1-1/2"	7.50	5.98	9.49	2.83	5.65	.79	1.41	1.50	PD090	28.1	G300F * S O8D
2"	8.50	7.24	10.46	3.15	5.90	1.18	1.57	1.97	PD120	36.2	H300F * S O8D
60 psig Minimum Actuator Air Supply = 6D											
1/2"	5.50	5.12	7.69	2.17	4.54	.79	1.08	.59	PD030	12.2	C300F * S O6D
3/4"	6.00	5.67	8.07	2.36	4.70	.79	1.08	.79	PD045	14.8	D300F * S O6D
1"	6.50	5.67	8.43	2.36	5.06	.79	1.08	.98	PD045	17.8	E300F * S O6D
1-1/2"	7.50	7.24	10.21	3.15	5.65	1.18	1.57	1.50	PD120	30.2	G300F * S O6D
2"	8.50	8.35	10.86	3.54	5.90	1.18	1.77	1.97	PD180	37.5	H300F * S O6D

Note: Dimensions "C" & "E" include a 3" high mounting bracket

*C = Carbon Stl Body, 316SS Trim

*S = 316SS Body & Trim

300 VALVE SPECIFICATIONS

- 300F Class 300
- Standard Steam Working Pressure: 150SWP, optional 300PSIG
- Protected Seat Design
- Fire Safe Designed to API607-5
- Spiral Wound Body Gasket w/Secondary metal to metal seat
- Carbon Steel or Stainless Steel Body
- Seats: 50/50
- Max Temp: 50/50 seats: 525°F

PNEUMATIC ACTUATOR FEATURES

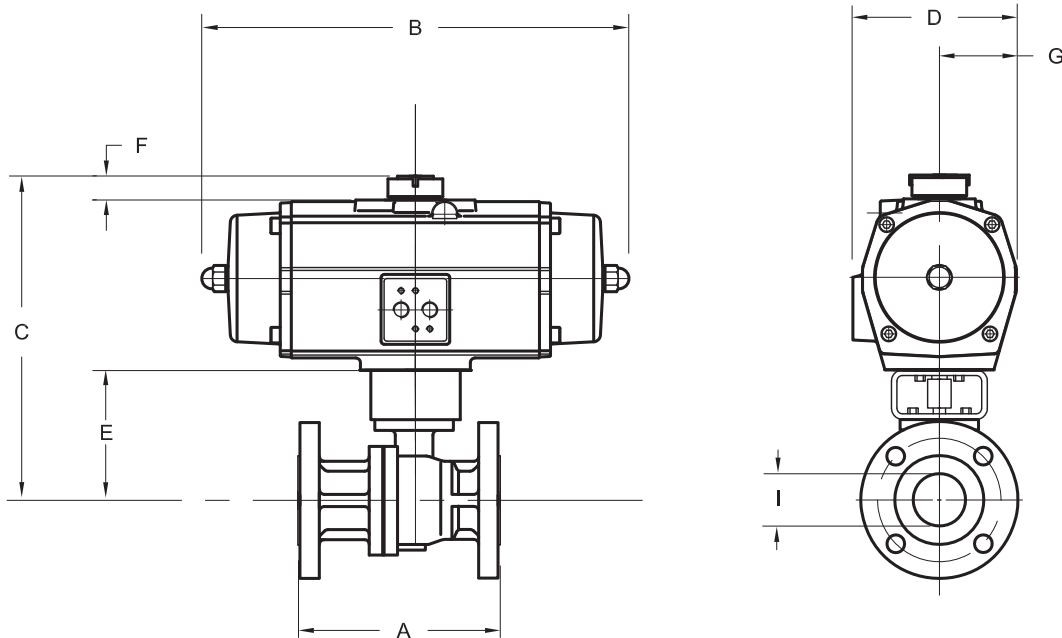
- O Series double acting pneumatic actuator
- Corrosion resistant coating
- NAMUR solenoid mounting pad, ISO 5211 mounting standard
- Visual position indicator
- High duty cycle, permanent lubrication
- Temperature range: -4°F to 175°F

300F_F ESR .5 - 2

Full port ball valve with spring return pneumatic actuator

300# Flanged 2-pc body TFM Seats

Actuators are sized for 150 psi pressure differential



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	C	D	E	F	G	I	Actuator	Wt.(lbs.)	Model No.
80 psig Minimum Actuator Air Supply = 8S											
1/2"	5.50	8.03	8.99	3.78	4.54	.79	1.70	.59	ES40	15.3	C300F * F E8S ①
3/4"	6.00	8.03	9.15	3.78	4.70	.79	1.70	.79	ES40	16.8	D300F * F E8S ①
1"	6.50	8.03	9.51	3.78	5.06	.79	1.70	.98	ES40	20.3	E300F * F E8S ①
1-1/2"	7.50	10.51	11.09	4.60	5.65	.79	2.12	1.50	ES100	34.1	G300F * F E8S ①
2"	8.50	14.17	12.32	5.39	5.90	.79	2.52	1.97	ES200	50.1	H300F * F E8S ①
60 psig Minimum Actuator Air Supply = 6S											
1/2"	5.50	9.80	9.46	4.19	4.54	.79	1.93	.59	ES65	17.9	C300F * F E6S ①
3/4"	6.00	9.80	9.62	4.19	4.70	.79	1.93	.79	ES65	19.9	D300F * F E6S ①
1"	6.50	9.80	9.98	4.19	5.06	.79	1.93	.98	ES65	22.9	E300F * F E6S ①
1-1/2"	7.50	14.17	12.07	5.39	5.65	.79	2.52	1.50	ES200	44.1	G300F * F E6S ①
2"	8.50	14.17	12.32	5.39	5.90	.79	2.52	1.97	ES200	50.1	H300F * F E6S ①

Note: Dimensions "C" & "E" include a 3" high mounting bracket

*C = Carbon Stl Body, 316SS Trim

*S = 316SS Body & Trim

① C=Fail Close, O=Fail Open

300 VALVE SPECIFICATIONS

- 300F Class 300
- Standard Steam Working Pressure: 150SWP, optional 300PSIG
- Protected Seat Design
- Fire Safe Designed to API607-5
- Spiral Wound Body Gasket w/Secondary metal to metal seat
- Carbon Steel or Stainless Steel Body
- Seats: TFM
- Max Temp: TFM seats: 475°F

PNEUMATIC ACTUATOR FEATURES

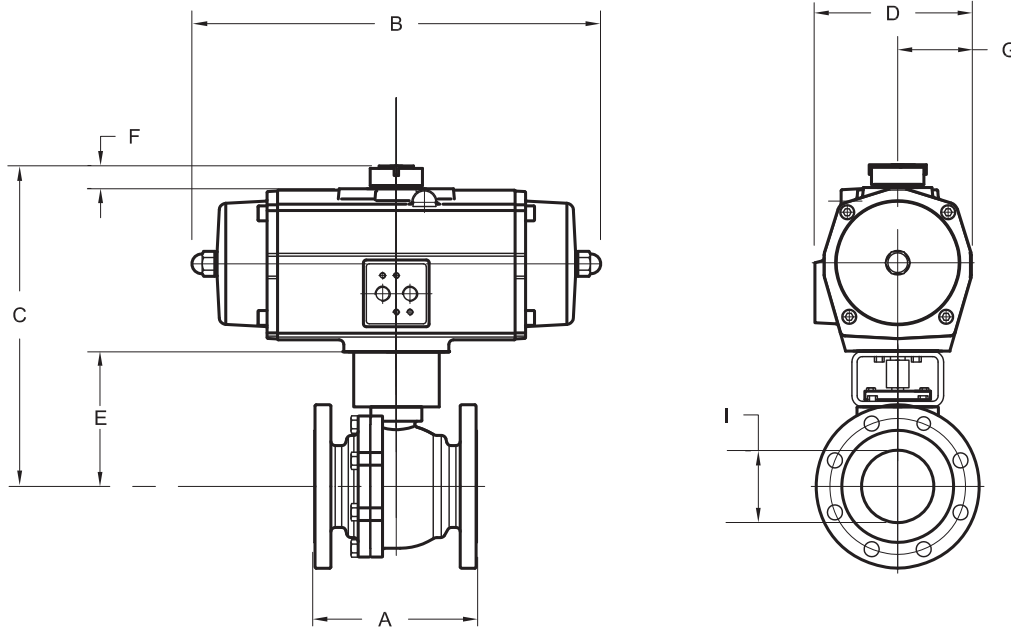
- E Series spring return rack and pinion pneumatic actuator
- Corrosion resistant coating
- NAMUR solenoid mounting pad, ISO 5211 mounting standard
- Visual position indicator
- High duty cycle, permanent lubrication
- Temperature range: -4°F to 175°F

300F_F ESR 3 - 8

Full port ball valve with spring return pneumatic actuator

300# Flanged 2-pc body TFM Seats

Actuators are sized for 150 psi pressure differential



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	C	D	E	F	G	I	Actuator	Wt.(lbs.)	Model No.
80 psig Minimum Actuator Air Supply = 8S											
3"	11.12	15.24	14.59	7.12	6.67	.79	3.41	3.00	ES350	102.3	J300F * F E8S ①
4"	12.00	18.78	18.24	8.52	8.40	1.18	4.08	4.00	ES600	163.8	K300F * F E8S ①
6"	15.88	25.08	24.07	10.81	11.20	1.18	5.21	5.98	ES1600	276.1	M300F * F E8S ①
8"	19.75	32.83	27.74	15.35	11.60	1.18	7.48	7.87	PS4000	672.0	N300F * F E8S ①
60 psig Minimum Actuator Air Supply = 6S											
3"	11.12	18.78	16.51	8.52	6.67	1.18	4.08	3.00	ES600	125.8	J300F * F E6S ①
4"	12.00	18.78	18.24	8.52	8.40	1.18	4.08	4.00	ES600	163.8	K300F * F E6S ①
6"	15.88	22.44	26.40	14.17	11.20	1.18	6.89	5.98	PS2500	425.0	M300F * F E6S ①
8"	19.75	32.83	27.74	15.35	11.60	1.18	7.48	7.87	PS4000	672.0	N300F * F E6S ①

Note: Dimensions "C" & "E" include a 3" high mounting bracket on 3" valve and a 4" high mounting bracket on 4" - 8" valves

*C = Carbon Stl Body, 316SS Trim

*S = 316SS Body & Trim

① C=Fail Close, O=Fail Open

300 VALVE SPECIFICATIONS

- 300F Class 300
- Standard Steam Working Pressure: 150SWP, optional 300PSIG
- Protected Seat Design
- Fire Safe Designed to API607-5
- Spiral Wound Body Gasket w/Secondary metal to metal seat
- Carbon Steel or Stainless Steel Body
- Seats: TFM
- Max Temp: TFM seats: 475°F

PNEUMATIC ACTUATOR FEATURES

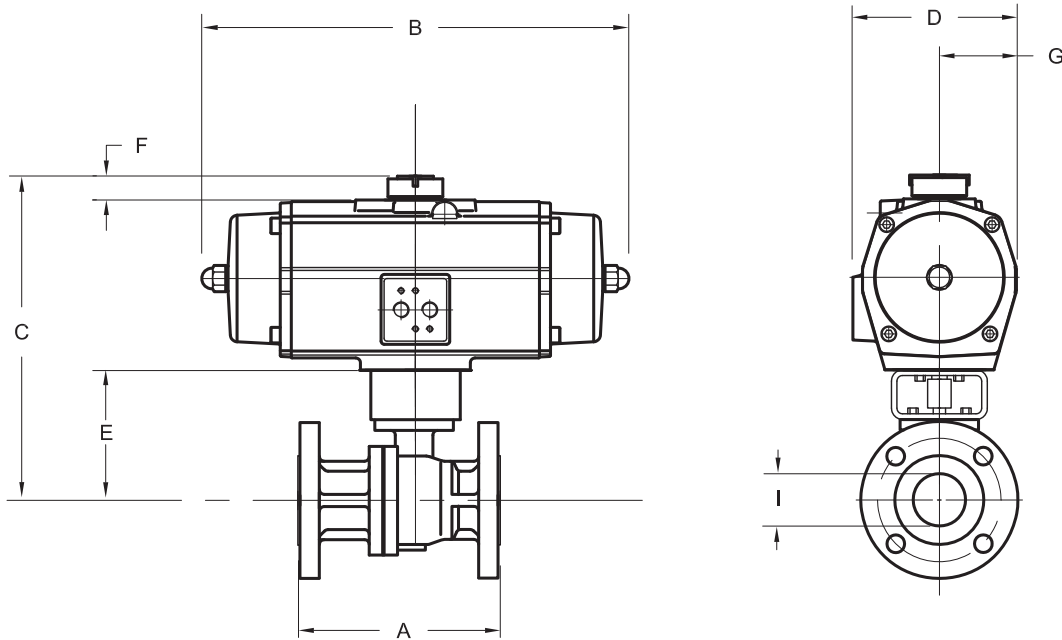
- E Series spring return rack and pinion pneumatic actuator
- Corrosion resistant coating
- NAMUR solenoid mounting pad, ISO 5211 mounting standard
- Visual position indicator
- High duty cycle, permanent lubrication
- Temperature range: -4°F to 175°F

300F_S ESR .5 - 2

Full port ball valve with spring return pneumatic actuator

300# Flanged 2-pc body 50/50 Seats

Actuators are sized for 150 psi pressure differential



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	C	D	E	F	G	I	Actuator	Wt.(lbs.)	Model No.
80 psig Minimum Actuator Air Supply = 8S											
1/2"	5.50	8.03	8.99	3.78	4.54	.79	1.70	.59	ES40	15.3	C300F * S E8S ①
3/4"	6.00	9.80	9.62	4.19	4.70	.79	1.93	.79	ES65	19.9	D300F * S E8S ①
1"	6.50	9.80	9.98	4.19	5.06	.79	1.93	.98	ES65	22.9	E300F * S E8S ①
1-1/2"	7.50	14.17	12.07	5.39	5.65	.79	2.52	1.50	ES200	44.1	G300F * S E8S ①
2"	8.50	14.17	12.32	5.39	5.90	.79	2.52	1.97	ES200	50.1	H300F * S E8S ①
60 psig Minimum Actuator Air Supply = 6S											
1/2"	5.50	6.77	9.46	3.26	4.54	.79	1.93	.59	ES65	17.9	C300F * S E6S ①
3/4"	6.00	8.03	9.62	3.78	4.70	.79	1.93	.79	ES65	19.9	D300F * S E6S ①
1"	6.50	9.80	9.98	4.19	5.06	.79	1.93	.98	ES65	22.9	E300F * S E6S ①
1-1/2"	7.50	10.51	12.07	4.60	5.65	.79	2.52	1.50	ES200	44.1	G300F * S E6S ①
2"	8.50	14.17	13.82	5.39	5.90	.79	3.41	1.97	ES350	67.3	H300F * S E6S ①

Note: Dimensions "C" & "E" include a 3" high mounting bracket

*C = Carbon Stl Body, 316SS Trim

*S = 316SS Body & Trim

① C=Fail Close, O=Fail Open

300 VALVE SPECIFICATIONS

- 300F Class 300
- Standard Steam Working Pressure: 150SWP, optional 300PSIG
- Protected Seat Design
- Fire Safe Designed to API607-5
- Spiral Wound Body Gasket w/Secondary metal to metal seat
- Carbon Steel or Stainless Steel Body
- Seats: 50/50
- Max Temp: 50/50 seats: 525°F

PNEUMATIC ACTUATOR FEATURES

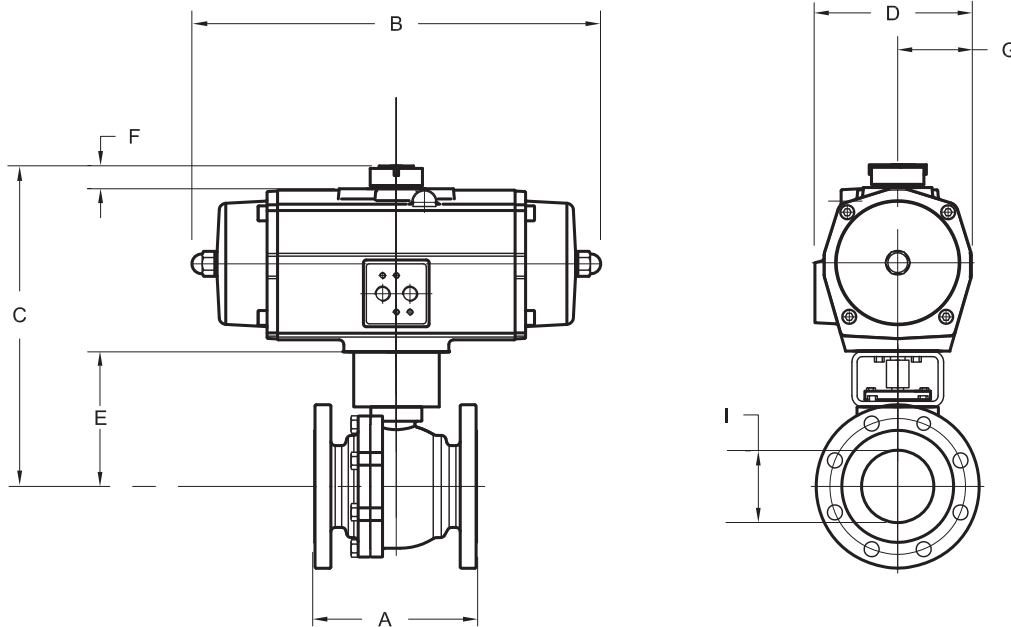
- E Series spring return rack and pinion pneumatic actuator
- Corrosion resistant coating
- NAMUR solenoid mounting pad, ISO 5211 mounting standard
- Visual position indicator
- High duty cycle, permanent lubrication
- Temperature range: -4°F to 175°F

300F_S ESR 3 - 8

Full port ball valve with spring return pneumatic actuator

300# Flanged 2-pc body 50/50 Seats

Actuators are sized for 150 psi pressure differential



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	C	D	E	F	G	I	Actuator	Wt.(lbs.)	Model No.
80 psig Minimum Actuator Air Supply = 8S											
3"	11.12	15.24	14.59	7.12	6.67	.79	3.41	3.00	ES350	102.3	J300F * S E8S ①
4"	12.00	20.35	19.78	9.51	8.40	1.18	4.54	4.00	ES950	188.1	K300F * S E8S ①
6"	15.88	22.44	26.40	14.17	11.20	1.18	6.89	5.98	PS2500	425.0	M300F * S E8S ①
8"	19.75	32.83	27.74	15.35	11.60	1.18	7.48	7.87	PS4000	672.0	N300F * S E8S ①
60 psig Minimum Actuator Air Supply = 6S											
3"	11.12	18.78	16.51	8.52	6.67	1.18	4.08	3.00	ES600	125.8	J300F * S E6S ①
4"	12.00	20.35	19.78	9.51	8.40	1.18	4.54	4.00	ES950	188.1	K300F * S E6S ①
6"	15.88	22.44	26.40	14.17	11.20	1.18	6.89	5.98	PS2500	425.0	M300F * S E6S ①
8"									N/A		

Note: Dimensions "C" & "E" include a 3" high mounting bracket on 3" valve and a 4" high mounting bracket on 4" - 8" valves

*C = Carbon Stl Body, 316SS Trim

*S = 316SS Body & Trim

① C=Fail Close, O=Fail Open

300 VALVE SPECIFICATIONS

- 300F Class 300
- Standard Steam Working Pressure: 150SWP, optional 300PSIG
- Protected Seat Design
- Fire Safe Designed to API607-5
- Spiral Wound Body Gasket w/Secondary metal to metal seat
- Carbon Steel or Stainless Steel Body
- Seats: 50/50
- Max Temp: 50/50 seats: 525°F

PNEUMATIC ACTUATOR FEATURES

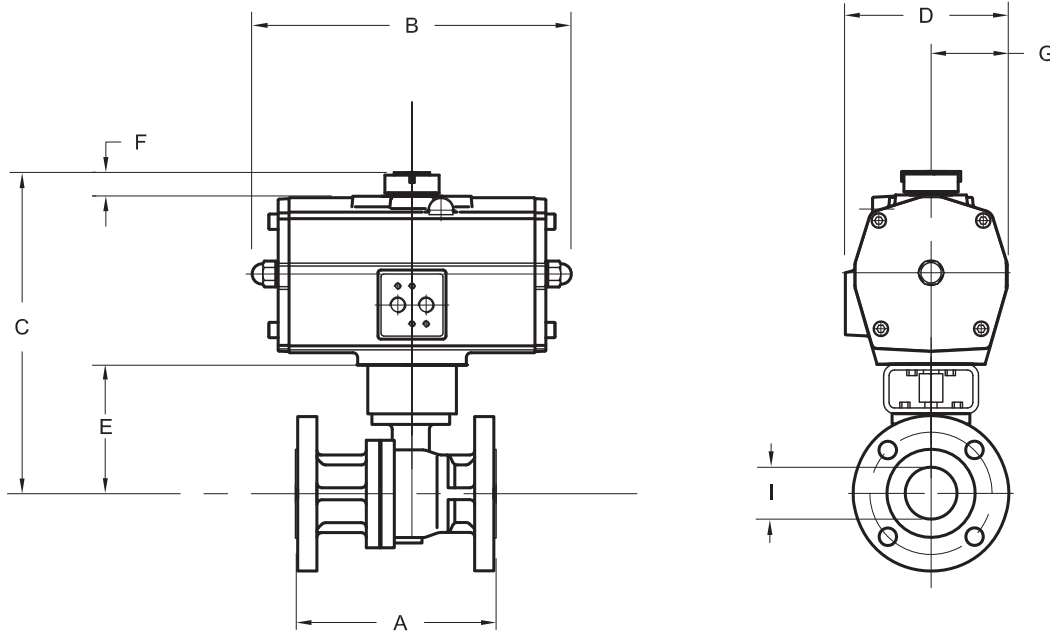
- E Series spring return rack and pinion pneumatic actuator
- Corrosion resistant coating
- NAMUR solenoid mounting pad, ISO 5211 mounting standard
- Visual position indicator
- High duty cycle, permanent lubrication
- Temperature range: -4°F to 175°F

300F_F EDA .5 - 2

Full port ball valve with double acting pneumatic actuator

300# Flanged 2-pc body TFM Seats

Actuators are sized for 150 psi pressure differential



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	C	D	E	F	G	I	Actuator	Wt.(lbs.)	Model No.
80 psig Minimum Actuator Air Supply = 8D											
1/2"	5.50	6.26	8.48	3.26	4.54	.79	1.46	.59	ED25	12.9	C300F * F E8D
3/4"	6.00	6.26	8.64	3.26	4.70	.79	1.46	.79	ED25	14.9	D300F * F E8D
1"	6.50	6.26	9.00	3.26	5.06	.79	1.46	.98	ED25	17.9	E300F * F E8D
1-1/2"	7.50	7.09	10.10	3.78	5.65	.79	1.70	1.50	ED40	28.0	G300F * F E8D
2"	8.50	7.83	10.82	4.19	5.90	.79	1.93	1.97	ED65	35.3	H300F * F E8D
60 psig Minimum Actuator Air Supply = 6D											
1/2"	5.50	6.26	8.48	3.26	4.54	.79	1.46	.59	ED25	12.9	C300F * F E6D
3/4"	6.00	6.26	8.64	3.26	4.70	.79	1.46	.79	ED25	14.9	D300F * F E6D
1"	6.50	6.26	9.00	3.26	5.06	.79	1.46	.98	ED25	17.9	E300F * F E6D
1-1/2"	7.50	7.83	10.57	4.19	5.65	.79	1.93	1.50	ED65	29.3	G300F * F E6D
2"	8.50	7.83	10.82	4.19	5.90	.79	1.93	1.97	ED65	35.3	H300F * F E6D

Note: Dimensions "C" & "E" include a 3" high mounting bracket

*C = Carbon Stl Body, 316SS Trim

*S = 316SS Body & Trim

300 VALVE SPECIFICATIONS

- 300F Class 300
- Standard Steam Working Pressure: 150SWP, optional 300PSIG
- Protected Seat Design
- Fire Safe Designed to API607-5
- Spiral Wound Body Gasket w/Secondary metal to metal seat
- Carbon Steel or Stainless Steel Body
- Seats: TFM
- Max Temp: TFM seats: 475°F

PNEUMATIC ACTUATOR FEATURES

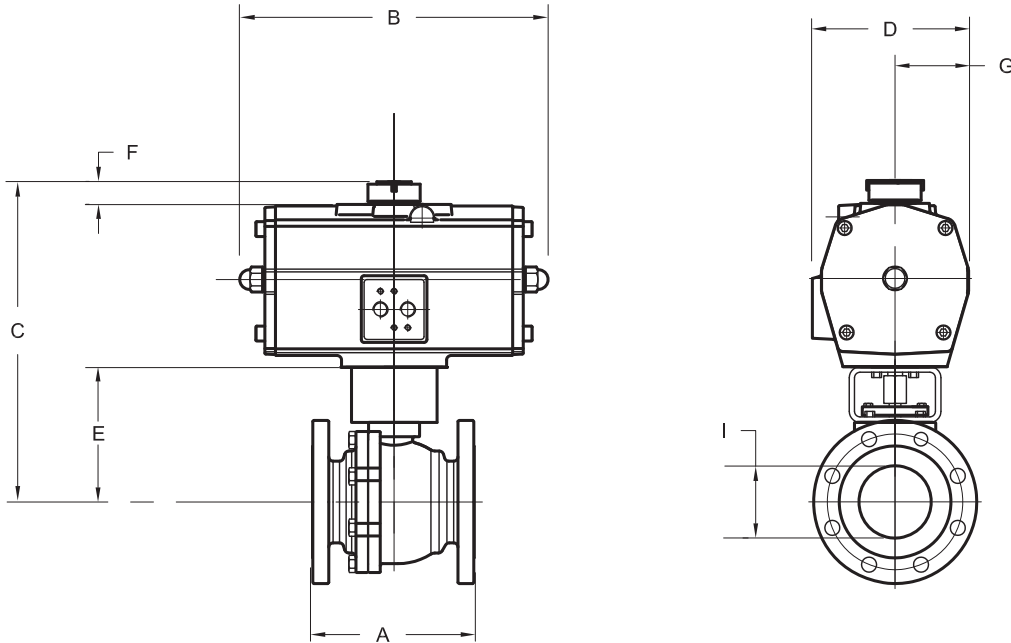
- E Series double acting rack and pinion pneumatic actuator
- Corrosion resistant coating
- NAMUR solenoid mounting pad, ISO 5211 mounting standard
- Visual position indicator
- High duty cycle, permanent lubrication
- Temperature range: -4°F to 175°F

300F_F EDA 3 - 8

Full port ball valve with double acting pneumatic actuator

300# Flanged 2-pc body TFM Seats

Actuators are sized for 150 psi pressure differential



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	C	D	E	F	G	I	Actuator	Wt.(lbs.)	Model No.
80 psig Minimum Actuator Air Supply = 8D											
3"	11.12	11.14	13.09	5.39	6.67	.79	2.52	3.00	ED100	77.8	J300F * F E8D
4"	12.00	11.14	14.82	5.39	8.40	.79	2.52	4.00	ED200	115.8	K300F * F E8D
6"	15.88	15.24	21.04	8.52	11.20	1.18	4.08	5.98	ED600	273.8	M300F * F E8D
8"	19.75	20.31	24.47	10.81	11.60	1.18	5.21	7.87	ED1600	475.1	N300F * F E8D
60 psig Minimum Actuator Air Supply = 6D											
3"	11.12	11.14	13.09	5.39	6.67	.79	2.52	3.00	ED200	77.8	J300F * F E6D
4"	12.00	12.01	16.32	7.12	8.40	.79	3.41	4.00	ED350	125.9	K300F * F E6D
6"	15.88	16.69	22.58	9.51	11.20	1.18	4.54	5.98	ED950	289.2	M300F * F E6D
8"	19.75	20.31	24.47	10.81	11.60	1.18	5.21	7.87	ED1600	475.1	M300F * F E6D

Note: Dimensions "C" & "E" include a 3" high mounting bracket on 3" valve and a 4" high mounting bracket on 4" - 8" valves

*C = Carbon Stl Body, 316SS Trim
 *S = 316SS Body & Trim

300 VALVE SPECIFICATIONS

- 300F Class 300
- Standard Steam Working Pressure: 150SWP, optional 300PSIG
- Protected Seat Design
- Fire Safe Designed to API607-5
- Spiral Wound Body Gasket w/Secondary metal to metal seat
- Carbon Steel or Stainless Steel Body
- Seats: TFM
- Max Temp: TFM seats: 475°F

PNEUMATIC ACTUATOR FEATURES

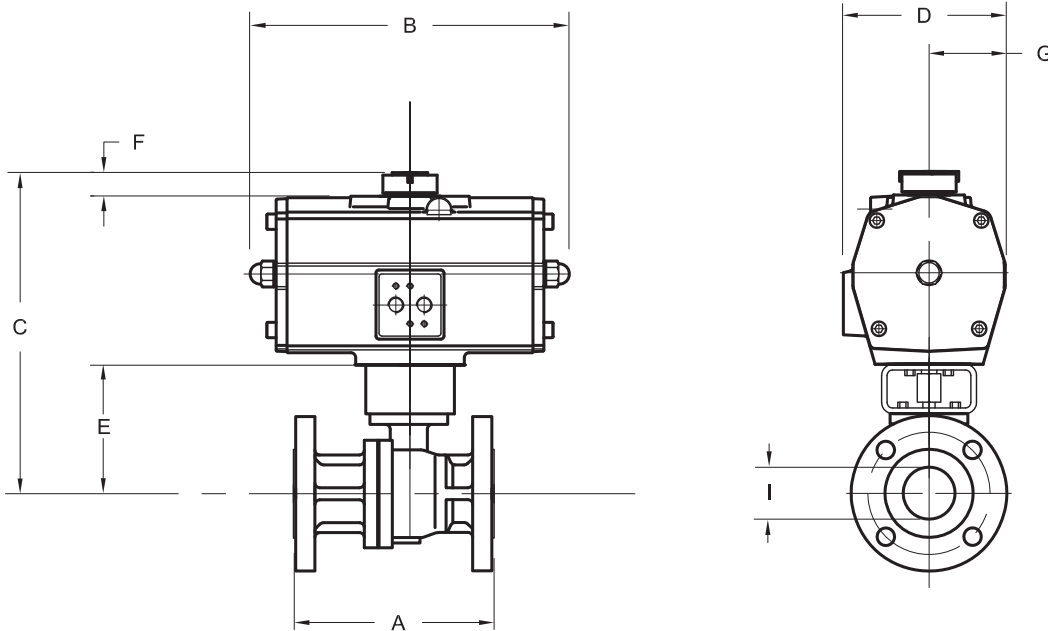
- E Series double acting rack and pinion pneumatic actuator
- Corrosion resistant coating
- NAMUR solenoid mounting pad, ISO 5211 mounting standard
- Visual position indicator
- High duty cycle, permanent lubrication
- Temperature range: -4°F to 175°F

300F_S EDA .5 - 2

Full port ball valve with double acting pneumatic actuator

300# Flanged 2-pc body 50/50 Seats

Actuators are sized for 150 psi pressure differential



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	C	D	E	F	G	I	Actuator	Wt.(lbs.)	Model No.
80 psig Minimum Actuator Air Supply = 8D											
1/2"	5.50	6.26	8.48	3.26	4.54	.79	1.46	.59	ED25	12.9	C300F * S E8D
3/4"	6.00	6.26	8.64	3.26	4.70	.79	1.46	.79	ED25	14.9	D300F * S E8D
1"	6.50	6.26	9.00	3.26	5.06	.79	1.46	.98	ED25	17.9	E300F * S E8D
1-1/2"	7.50	7.83	10.57	4.19	5.65	.79	1.93	1.50	ED65	29.3	G300F * S E8D
2"	8.50	7.83	10.82	4.19	5.90	.79	1.93	1.97	ED65	35.3	H300F * S E8D
60 psig Minimum Actuator Air Supply = 6D											
1/2"	5.50	6.26	8.48	3.26	4.54	.79	1.46	.59	ED25	12.9	C300F * S E6D
3/4"	6.00	6.26	8.64	3.26	4.70	.79	1.70	.79	ED25	14.9	D300F * S E6D
1"	6.50	6.26	9.00	3.26	5.06	.79	1.93	.98	ED25	17.9	E300F * S E6D
1-1/2"	7.50	7.83	10.57	4.19	5.65	.79	1.93	1.50	ED65	29.3	G300F * S E6D
2"	8.50	8.70	11.34	4.60	5.90	.79	2.12	1.97	ED100	36.8	H300F * S E6D

Note: Dimensions "C" & "E" include a 3" high mounting bracket

*C = Carbon Stl Body, 316SS Trim

*S = 316SS Body & Trim

300 VALVE SPECIFICATIONS

- 300F Class 300
- Standard Steam Working Pressure: 150SWP, optional 300PSIG
- Protected Seat Design
- Fire Safe Designed to API607-5
- Spiral Wound Body Gasket w/Secondary metal to metal seat
- Carbon Steel or Stainless Steel Body
- Seats: 50/50
- Max Temp: 50/50 seats: 525°F

PNEUMATIC ACTUATOR FEATURES

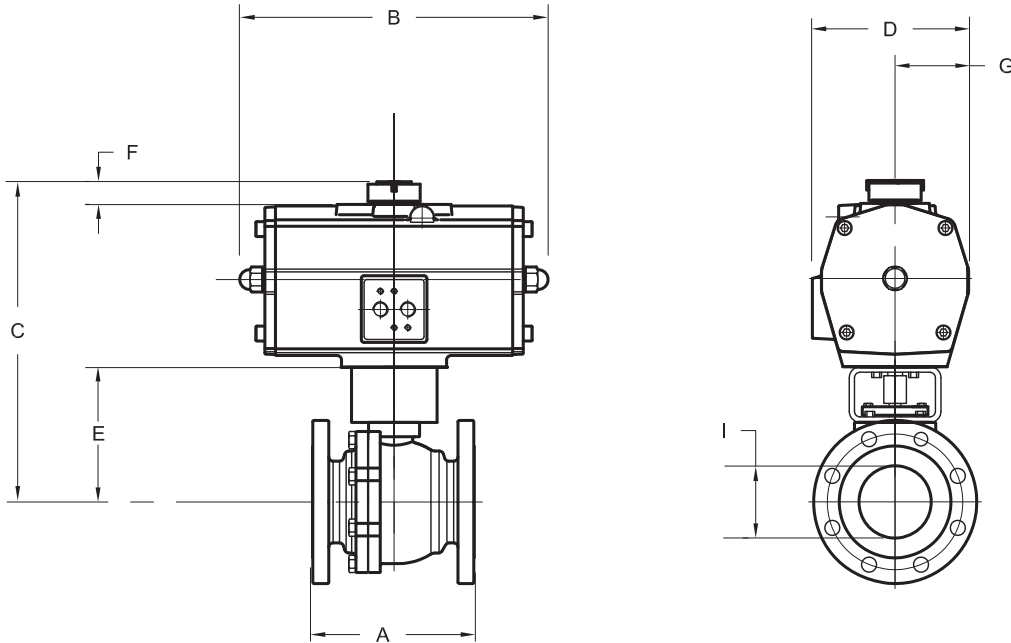
- E Series double acting rack and pinion pneumatic actuator
- Corrosion resistant coating
- NAMUR solenoid mounting pad, ISO 5211 mounting standard
- Visual position indicator
- High duty cycle, permanent lubrication
- Temperature range: -4°F to 175°F

300F_S EDA 3 - 8

Full port ball valve with double acting pneumatic actuator

300# Flanged 2-pc body 50/50 Seats

Actuators are sized for 150 psi pressure differential



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	C	D	E	F	G	I	Actuator	Wt.(lbs.)	Model No.
80 psig Minimum Actuator Air Supply = 8D											
3"	11.12	11.14	13.09	5.39	6.67	.79	2.52	3.00	ED200	77.8	J300F * S E8D
4"	12.00	12.01	16.32	7.12	8.40	.79	3.41	4.00	ED350	125.9	K300F * S E8D
6"	15.88	16.69	22.58	9.51	11.20	1.18	4.54	5.98	ED950	289.2	M300F * S E8D
8"	19.75	20.31	24.47	10.81	11.60	1.18	5.21	7.87	ED1600	475.1	N300F * S E8D
60 psig Minimum Actuator Air Supply = 6D											
3"	11.12	11.14	13.09	5.39	6.67	.79	2.52	3.00	ED200	77.8	J300F * S E6D
4"	12.00	12.01	16.32	7.12	8.40	.79	3.41	4.00	ED350	125.9	K300F * S E6D
6"	15.88	20.31	24.07	10.81	11.20	1.18	5.21	5.98	ED1600	325.1	M300F * S E6D
8"	19.75	14.88	26.80	14.17	11.60	1.18	6.89	7.87	PD2500	506.0	M300F * S E6D

Note: Dimensions "C" & "E" include a 3" high mounting bracket on 3" valve and a 4" high mounting bracket on 4" - 8" valves

*C = Carbon Stl Body, 316SS Trim
 *S = 316SS Body & Trim

300 VALVE SPECIFICATIONS

- 300F Class 300
- Standard Steam Working Pressure: 150SWP, optional 300PSIG
- Protected Seat Design
- Fire Safe Designed to API607-5
- Spiral Wound Body Gasket w/Secondary metal to metal seat
- Carbon Steel or Stainless Steel Body
- Seats: 50/50
- Max Temp: 50/50 seats: 525°F

PNEUMATIC ACTUATOR FEATURES

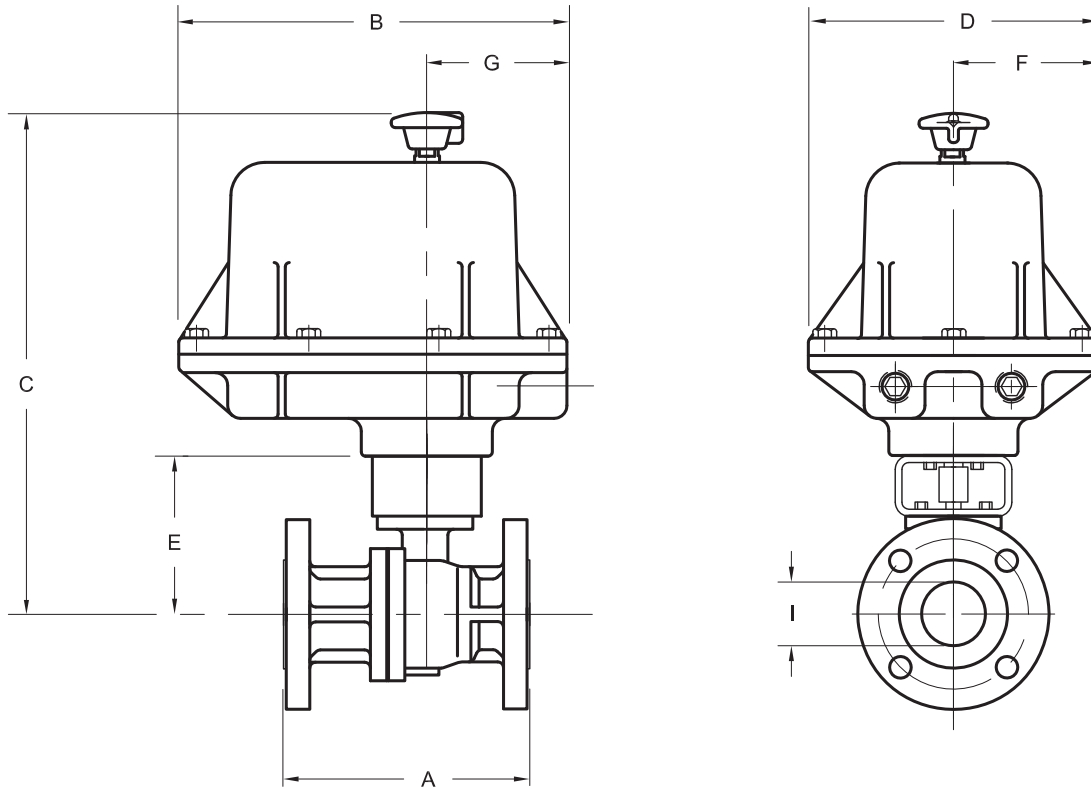
- E & P Series double acting rack and pinion pneumatic actuator
- Corrosion resistant coating
- NAMUR solenoid mounting pad, ISO 5211 mounting standard
- Visual position indicator
- High duty cycle, permanent lubrication
- Temperature range: -4°F to 175°F

300F_F B7A .5 - 2

Full port ball valve with electric actuator, NEMA 7, 120vac

300# Flanged 2-pc body TFM Seats

Actuators are sized for 150 psi pressure differential



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	C	D	E	F	G	I	Actuator	Wt.(lbs.)	Model No.
1/2"	5.50	8.25	12.04	6.25	4.54	3.12	3.75	.59	EM310-30	27.0	C300F * F B7A
3/4"	6.00	8.25	12.16	6.25	4.66	3.12	3.75	.79	EM310-30	28.0	D300F * F B7A
1"	6.50	8.25	12.55	6.25	5.05	3.12	3.75	.98	EM310-30	30.5	E300F * F B7A
1-1/2"	7.50	8.25	13.10	6.25	5.60	3.12	3.75	1.50	EM310-30	37.5	G300F * F B7A
2"	8.50	8.25	13.40	6.25	5.90	3.12	3.75	1.97	EM310-30	44.0	H300F * F B7A

Note: Dimensions "C" & "E" include a 3" high mounting bracket

*C = Carbon Stl Body, 316SS Trim

*S = 316SS Body & Trim

300 VALVE SPECIFICATIONS

- 300F Class 300
- Standard Steam Working Pressure: 150SWP, optional 300PSIG
- Protected Seat Design
- Fire Safe Designed to API607-5
- Spiral Wound Body Gasket w/Secondary metal to metal seat
- Carbon Steel or Stainless Steel Body
- Seats: TFM
- Max Temp: TFM seats: 475°F

ELECTRIC ACTUATOR FEATURES

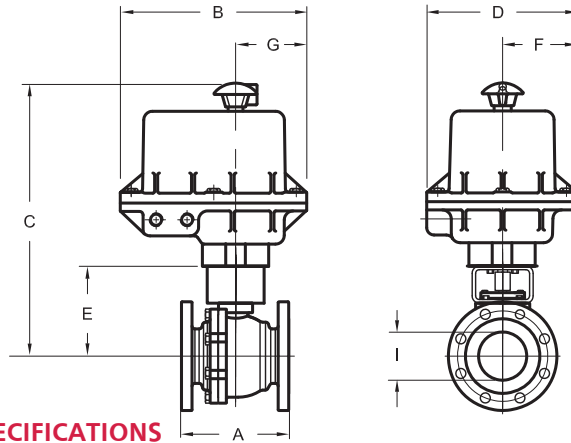
- B7 Series electric actuator
- NEMA 4, 4x, 7, & 9; CSA approved
- Weatherproof
- Class I Groups C and D, Div. 1
- Class II Groups E, F, & G
- (2) 1/2" NPT conduit entries
- Manual override
- Visual position Indicator
- CSA certified
- Temperature range: 0°F to 175°F

300F_F B7A 3 - 8

Full port ball valve with electric actuator, NEMA 7, 120vac

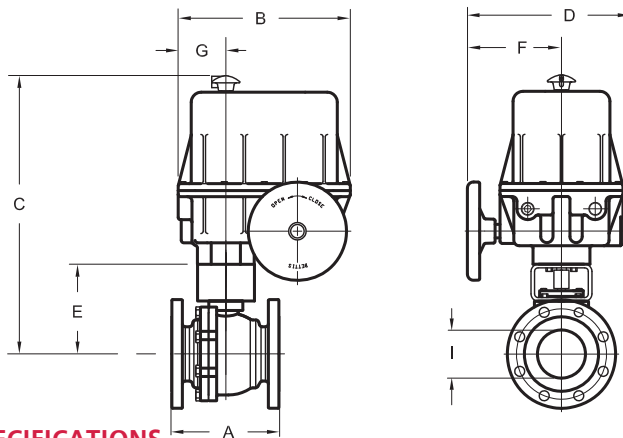
300# Flanged 2-pc body TFM Seats

Actuators are sized for 150 psi pressure differential



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	C	D	E	F	G	I	Actuator	Wt.(lbs.)	Model No.
3"	11.12	9.75	16.11	7.75	6.67	3.88	3.75	3.00	EM500-30	83.0	J300F * F B7A



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	C	D	E	F	G	I	Actuator	Wt.(lbs.)	Model No.
4"	12.00	14.00	23.72	13.31	8.40	7.62	3.88	4.00	EM810-30	263.0	K300F * F B7A
6"	15.88	14.00	23.72	13.31	11.20	7.62	3.88	5.98	EM820-30	391.0	M300F * F B7A
8"	19.75	14.00	23.72	13.31	11.60	7.62	3.88	7.87	EM840-48	541.0	N300F * F B7A

Note: Dimensions "C " & "E" include a 3" high mounting bracket on 3" valve and a 4" high mounting bracket on 4" - 8" valves

*C = Carbon Stl Body, 316SS Trim

*S = 316SS Body & Trim

300 VALVE SPECIFICATIONS

- 300F Class 300
- Standard Steam Working Pressure: 150SWP, optional 300PSIG
- Protected Seat Design
- Fire Safe Designed to API607-5
- Spiral Wound Body Gasket w/Secondary metal to metal seat
- Carbon Steel or Stainless Steel Body
- Seats: TFM
- Max Temp: TFM seats: 475°F

ELECTRIC ACTUATOR FEATURES

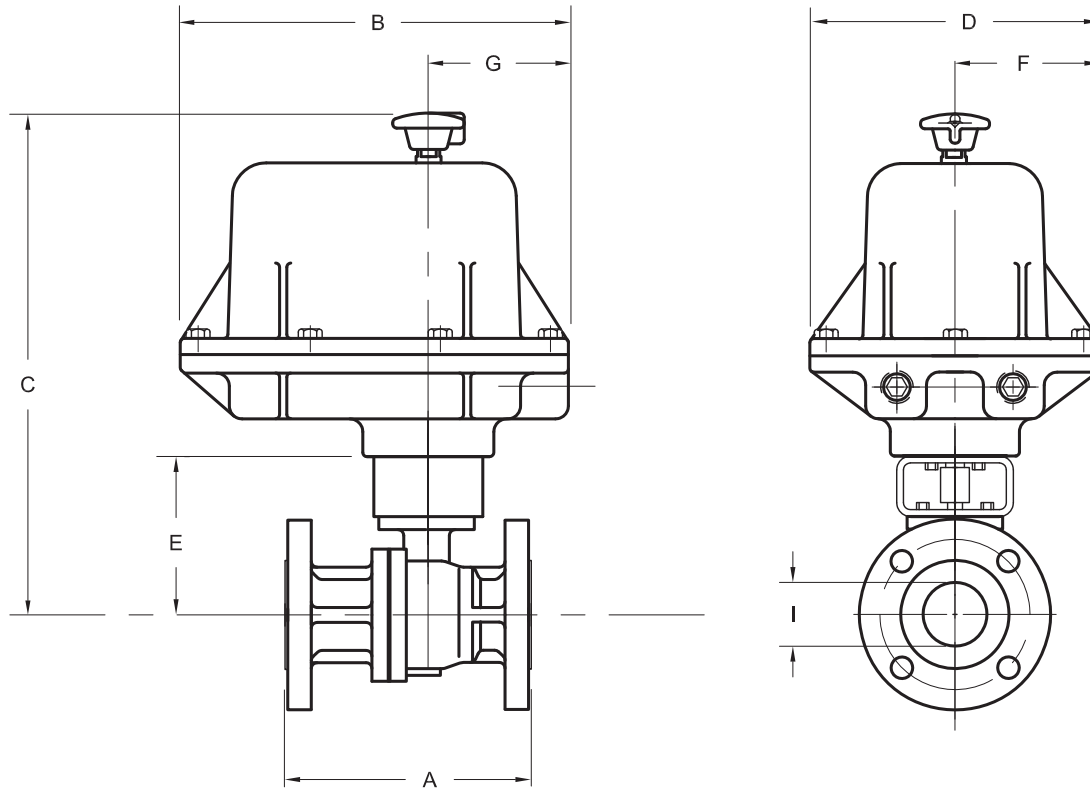
- B7 Series electric actuator
- NEMA 4, 4x, 7, & 9; CSA approved
- Weatherproof
- Class I Groups C and D, Div. 1
- Class II Groups E, F, & G
- (2) 1/2" NPT conduit entries
- Manual override
- Visual position Indicator
- CSA certified
- Temperature range: 0°F to 175°F

300F_S B7A .5 - 1.5

Full port ball valve with electric actuator, NEMA 7, 120vac

300# Flanged 2-pc body 50/50 Seats

Actuators are sized for 150 psi pressure differential



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	C	D	E	F	G	I	Actuator	Wt.(lbs.)	Model No.
1/2"	5.50	8.25	12.04	6.25	4.54	3.12	3.75	.59	EM310-30	27.0	C300F * S B7A
3/4"	6.00	8.25	12.16	6.25	4.66	3.12	3.75	.79	EM310-30	28.0	D300F * S B7A
1"	6.50	8.25	12.55	6.25	5.05	3.12	3.75	.98	EM310-30	30.5	E300F * S B7A
1-1/2"	7.50	8.25	13.10	6.25	5.60	3.12	3.75	1.50	EM310-30	37.5	G300F * S B7A

Note: Dimensions "C" & "E" include a 3" high mounting bracket

*C = Carbon Stl Body, 316SS Trim

*S = 316SS Body & Trim

300 VALVE SPECIFICATIONS

- 300F Class 300
- Standard Steam Working Pressure: 150SWP, optional 300PSIG
- Protected Seat Design
- Fire Safe Designed to API607-5
- Spiral Wound Body Gasket w/Secondary metal to metal seat
- Carbon Steel or Stainless Steel Body
- Seats: 50/50
- Max Temp: 50/50 seats: 525°F

ELECTRIC ACTUATOR FEATURES

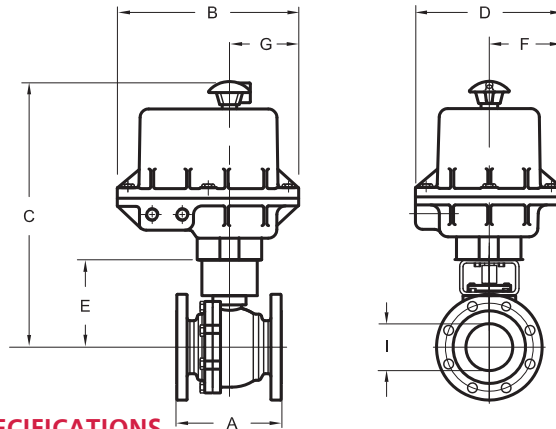
- B7 Series electric actuator
- NEMA 4, 4x, 7, & 9; CSA approved
- Weatherproof
- Class I Groups C and D, Div. 1
- Class II Groups E, F, & G
- (2) 1/2" NPT conduit entries
- Manual override
- Visual position Indicator
- CSA certified
- Temperature range: 0°F to 175°F

300F_S B7A 2 - 8

Full port ball valve with electric actuator, NEMA 7, 120vac

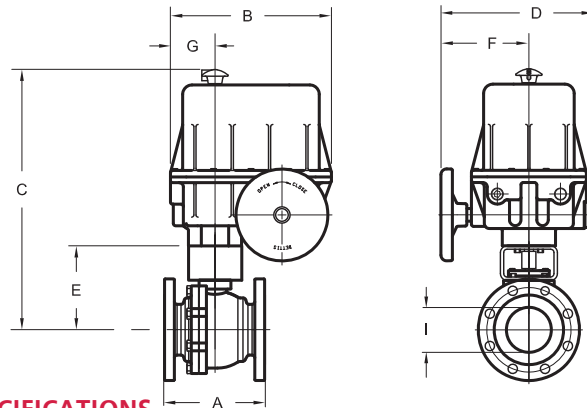
300# Flanged 2-pc body 50/50 Seats

Actuators are sized for 150 psi pressure differential



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	C	D	E	F	G	I	Actuator	Wt.(lbs.)	Model No.
2"	8.50	8.25	15.34	6.25	5.90	3.12	3.75	1.97	EM520-15	48.0	H300F * S B7A



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	C	D	E	F	G	I	Actuator	Wt.(lbs.)	Model No.
3"	11.12	14.00	16.11	13.31	6.67	7.62	3.88	3.00	EM810-15	225.0	J300F * S B7A
4"	12.00	14.00	23.72	13.31	8.40	7.62	3.88	4.00	EM810-30	263.0	K300F * S B7A
6"	15.88	14.00	23.72	13.31	11.20	7.62	3.88	5.98	EM830-30	391.0	M300F * S B7A
8"	19.75	14.00	23.72	13.31	11.60	7.62	3.88	7.87	EM840-72	541.0	N300F * S B7A

Note: Dimensions "C " & "E" include a 3" high mounting bracket on 2" & 3" valve and a 4" high mounting bracket on 4" - 8" valves

*C = Carbon Stl Body, 316SS Trim
 *S = 316SS Body & Trim

300 VALVE SPECIFICATIONS

- 300F Class 300
- Standard Steam Working Pressure: 150SWP, optional 300PSIG
- Protected Seat Design
- Fire Safe Designed to API607-5
- Spiral Wound Body Gasket w/Secondary metal to metal seat
- Carbon Steel or Stainless Steel Body
- Seats: 50/50
- Max Temp: 50/50 seats: 525°F

ELECTRIC ACTUATOR FEATURES

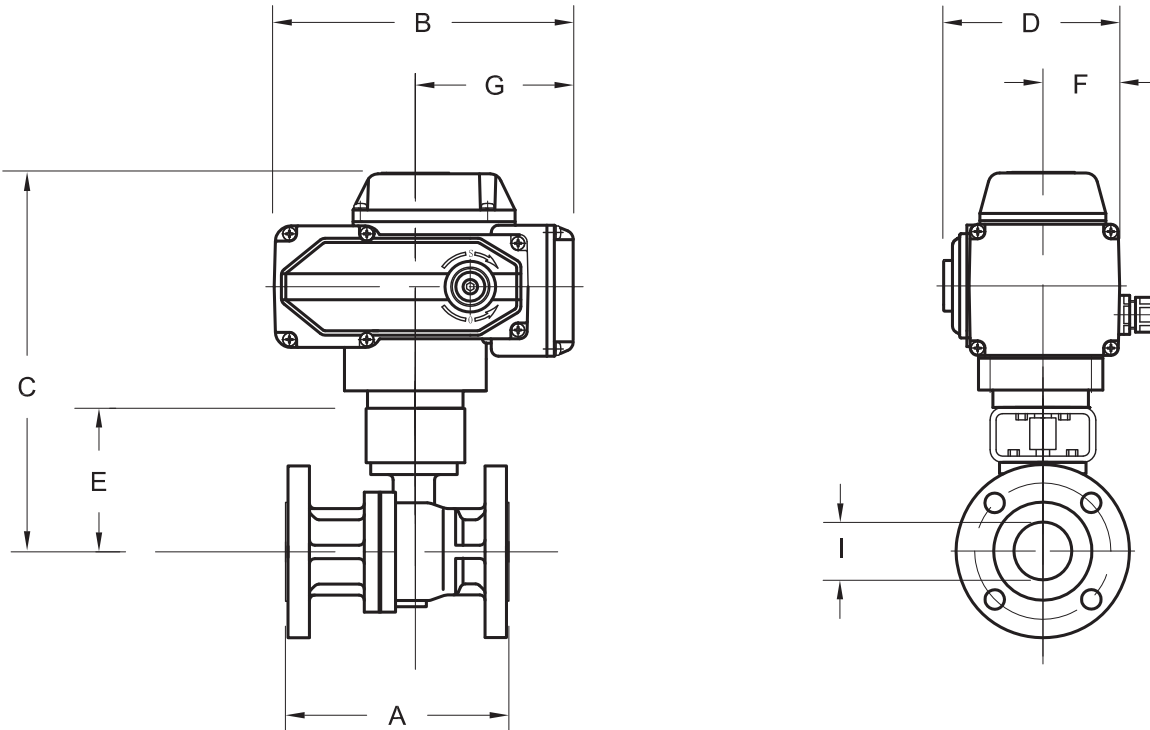
- B7 Series electric actuator
- NEMA 4, 4x, 7, & 9; CSA approved
- Weatherproof
- Class I Groups C and D, Div. 1
- Class II Groups E, F, & G
- (2) 1/2" NPT conduit entries
- Manual override
- Visual position Indicator
- CSA certified
- Temperature range: 0°F to 175°F

300F_F K4A .5 - 2

Full port ball valve with electric actuator

300# Flanged 2-pc body TFM Seats

Actuators are sized for 150 psi pressure differential



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	C	D	E	F	G	I	Actuator	Wt.(lbs.)	Model No.
1/2"	5.50	6.24	8.62	4.51	4.54	2.00	2.99	.59	UNIC 05A	15.0	C300F * F K4A
3/4"	6.00	6.24	8.74	4.51	4.66	2.00	2.99	.79	UNIC 05A	17.0	D300F * F K4A
1"	6.50	6.24	9.13	4.51	5.05	2.00	2.99	.98	UNIC 05A	20.0	E300F * F K4A
1-1/2"	7.50	6.24	9.73	4.51	5.65	2.00	2.99	1.50	UNIC 05A	29.0	G300F * F K4A
2"	8.50	8.17	12.39	4.82	5.90	2.14	4.33	1.97	UNIC 10A	40.0	H300F * F K4A

Note: Dimensions "C" & "E" include a 3" high mounting bracket

*C = Carbon Stl Body, 316SS Trim

*S = 316SS Body & Trim

300 VALVE SPECIFICATIONS

- 300F Class 300
- Standard Steam Working Pressure: 150SWP, optional 300PSIG
- Protected Seat Design
- Fire Safe Designed to API607-5
- Spiral Wound Body Gasket w/Secondary metal to metal seat
- Carbon Steel or Stainless Steel Body
- Seats: TFM
- Max Temp: TFM seats: 475°F

ELECTRIC ACTUATOR FEATURES

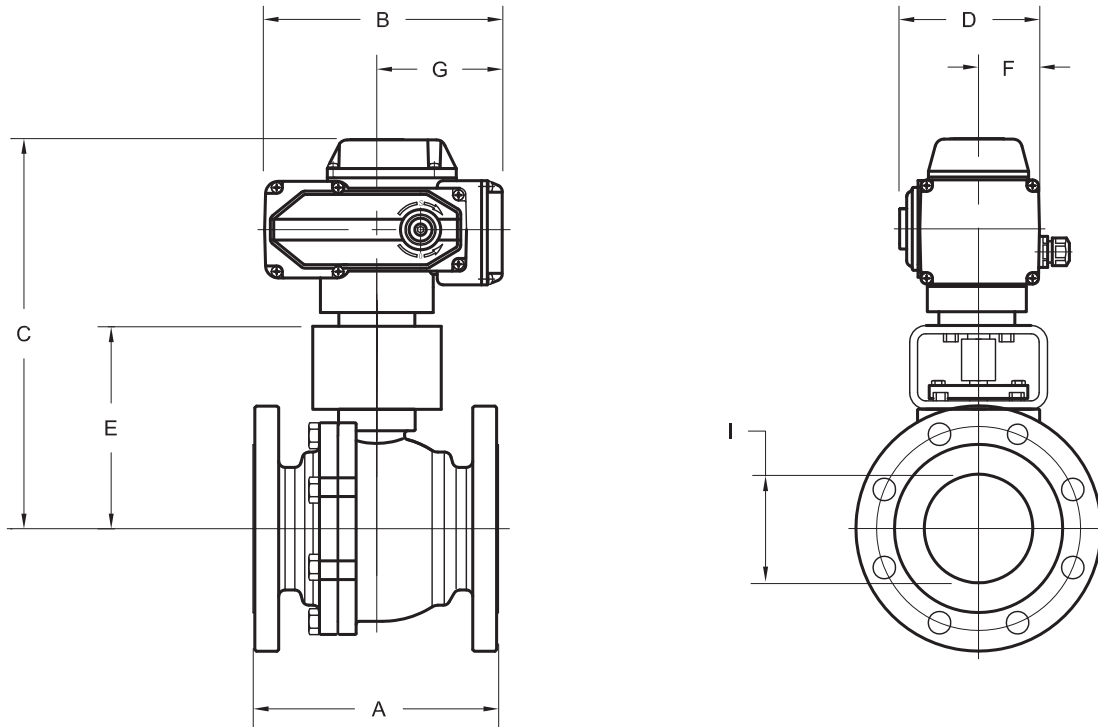
- K Series electric actuator
- Actuator speed: 25 sec.
- Most voltages available
- Quarter turn: 0-90° rotation
- NEMA 4/4X certified by UL labs
- ISO 5211 mounting standard
- Visual position indicator
- Self-locking drive train
- Mounts in any direction
- 1/2" NPT conduit connection
- CSA-NRTL /C and CE certified
- Temperature range: 0°F to 160°F

300F_F K4A 3 - 8

Full port ball valve with electric actuator

300# Flanged 2-pc body TFM Seats

Actuators are sized for 150 psi pressure differential



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	C	D	E	F	G	I	Actuator	Wt.(lbs.)	Model No.
3"	11.12	10.10	13.95	6.16	6.67	2.46	5.25	3.00	UNIC 20A	83.0	J300F * F K4A
4"	12.00	10.10	15.68	6.16	8.40	2.46	5.25	4.00	UNIC 40A	121.0	K300F * F K4A
6"	15.88	15.00	20.41	9.53	11.20	4.13	7.85	5.98	UNIC 60A	277.2	M300F * F K4A
8"	19.75	15.00	20.81	9.98	11.60	4.13	7.85	7.87	UNIC 200A	433.9	N300F * F K4A

Note: Dimensions "C" & "E" include a 3" high mounting bracket on 3" valve and a 4" high mounting bracket on 4" - 8" valves

*C = Carbon Stl Body, 316SS Trim

*S = 316SS Body & Trim

300 VALVE SPECIFICATIONS

- 300F Class 300
- Standard Steam Working Pressure: 150SWP, optional 300PSIG
- Protected Seat Design
- Fire Safe Designed to API607-5
- Spiral Wound Body Gasket w/Secondary metal to metal seat
- Carbon Steel or Stainless Steel Body
- Seats: TFM
- Max Temp: TFM seats: 475°F

ELECTRIC ACTUATOR FEATURES

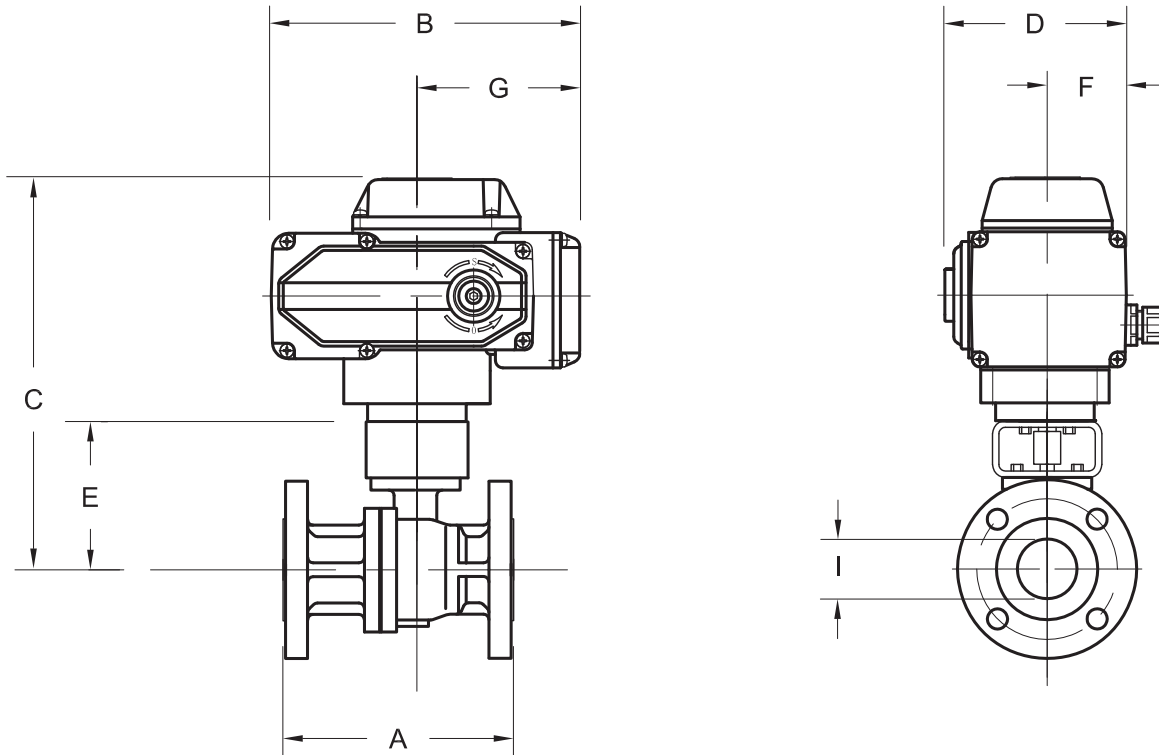
- K Series electric actuator
- Actuator speed: 25 sec.
- Most voltages available
- Quarter turn: 0-90° rotation
- NEMA 4/4X certified by UL labs
- ISO 5211 mounting standard
- Visual position indicator
- Self-locking drive train
- Mounts in any direction
- 1/2" NPT conduit connection
- CSA-NRTL /C and CE certified
- Temperature range: 0°F to 160°F

300F_S K4A .5 - 2

Full port ball valve with electric actuator

300# Flanged 2-pc body 50/50 Seats

Actuators are sized for 150 psi pressure differential



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	C	D	E	F	G	I	Actuator	Wt.(lbs.)	Model No.
1/2"	5.50	6.24	9.25	4.51	4.54	2.00	2.99	.59	UNIC 05A	15.0	C300F * S K4A
3/4"	6.00	6.24	9.37	4.51	4.66	2.00	2.99	.79	UNIC 05A	17.0	D300F * S K4A
1"	6.50	6.24	9.76	4.51	5.05	2.00	2.99	.98	UNIC 05A	20.0	E300F * S K4A
1-1/2"	7.50	8.17	12.09	4.82	5.65	1.62	4.33	1.50	UNIC 10A	34.0	G300F * S K4A
2"	8.50	8.17	13.16	4.82	5.90	1.62	4.33	1.97	UNIC 10A	40.0	H300F * S K4A

Note: Dimensions "C" & "E" include a 3" high mounting bracket

*C = Carbon Stl Body, 316SS Trim

*S = 316SS Body & Trim

300 VALVE SPECIFICATIONS

- 300F Class 300
- Standard Steam Working Pressure: 150SWP, optional 300PSIG
- Protected Seat Design
- Fire Safe Designed to API607-5
- Spiral Wound Body Gasket w/Secondary metal to metal seat
- Carbon Steel or Stainless Steel Body
- Seats: 50/50
- Max Temp: 50/50 seats: 525°F

ELECTRIC ACTUATOR FEATURES

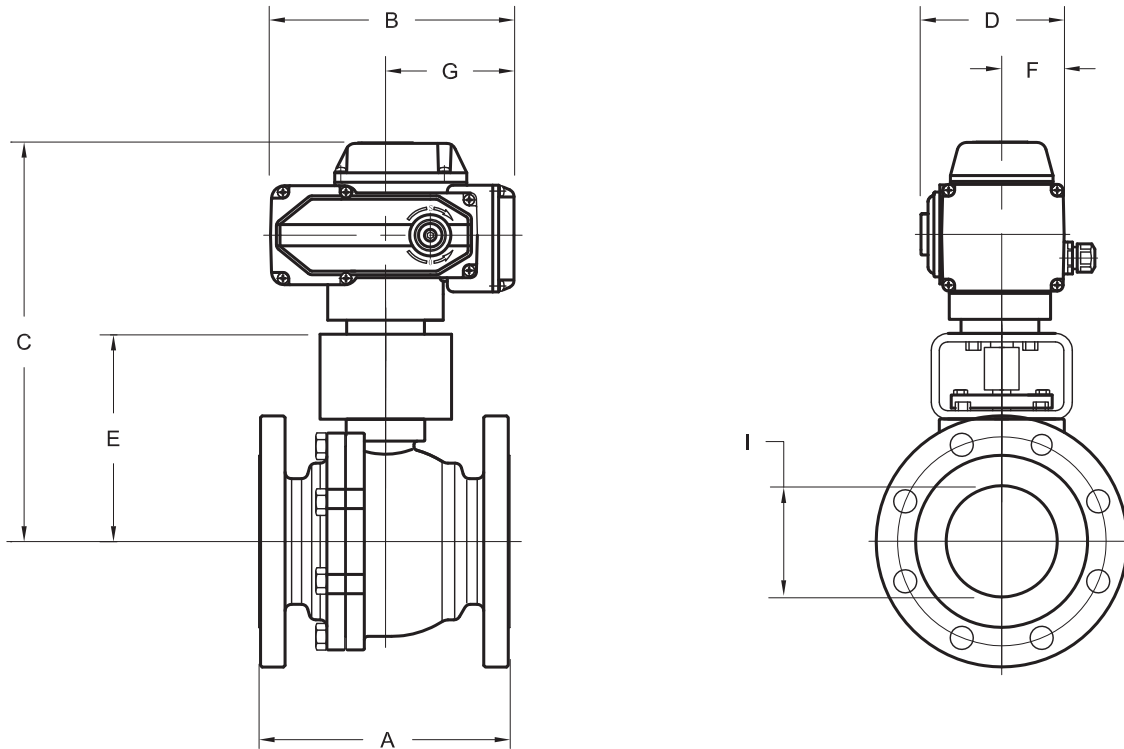
- K Series electric actuator
- Actuator speed: 25 sec.
- Most voltages available
- Quarter turn: 0-90° rotation
- NEMA 4/4X certified by UL labs
- ISO 5211 mounting standard
- Visual position indicator
- Self-locking drive train
- Mounts in any direction
- 1/2" NPT conduit connection
- CSA-NRTL /C and CE certified
- Temperature range: 0°F to 160°F

300F_S K4A 3 - 8

Full port ball valve with electric actuator

300# Flanged 2-pc body 50/50 Seats

Actuators are sized for 150 psi pressure differential



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	C	D	E	F	G	I	Actuator	Wt.(lbs.)	Model No.
3"	11.12	10.10	13.95	6.16	6.67	2.46	5.25	3.00	UNIC 20A	83.0	J300F * S K4A
4"	12.00	10.10	15.68	6.16	8.40	2.46	5.25	4.00	UNIC 40A	121.0	K300F * S K4A
6"	15.88	15.00	20.41	9.53	11.20	4.13	7.85	5.98	UNIC 100A	278.7	M300F * S K4A
8"	19.75	15.00	20.81	9.98	11.60	4.13	7.85	7.87	UNIC 200A	433.9	N300F * S K4A

Note: Dimensions "C" & "E" include a 3" high mounting bracket on 3" valve and a 4" high mounting bracket on 4" - 8" valves

*C = Carbon Stl Body, 316SS Trim

*S = 316SS Body & Trim

300 VALVE SPECIFICATIONS

- 300F Class 300
- Standard Steam Working Pressure: 150SWP, optional 300PSIG
- Protected Seat Design
- Fire Safe Designed to API607-5
- Spiral Wound Body Gasket w/Secondary metal to metal seat
- Carbon Steel or Stainless Steel Body
- Seats: 50/50
- Max Temp: 50/50 seats: 525°F

ELECTRIC ACTUATOR FEATURES

- K Series electric actuator
- Actuator speed: 25 sec.
- Most voltages available
- Quarter turn: 0-90° rotation
- NEMA 4/4X certified by UL labs
- ISO 5211 mounting standard
- Visual position indicator
- Self-locking drive train
- Mounts in any direction
- 1/2" NPT conduit connection
- CSA-NRTL /C and CE certified
- Temperature range: 0°F to 160°F

P2 Series

PVC / CPVC Full Port 2-way Ball Valve



P2 Series ball valves offer a variety of advanced features such as a high quality stem and ball support system, and a multifunctional locking handle. The new Dual Block® system locks the union nuts preventing back-off due to vibration or thermal cycling. Deep grooves, thick o-rings, and cushioned PTFE seats contribute to strong seals at pressures up to 232 PSI while an integral mounting flange and support bracketing combine for simple adaptation for valve actuation and anchoring.

FEATURES

- Expansion and contraction compensating groove on the molded end of the valve body.
- Valve body, union nuts, and carrier have deep square style threads for increased strength.
- Ball and stem are machined smooth to minimize wear on valve seats and seals.
- All valve seats have o-ring backing cushions to compensate for wear and prevent seizure of the ball.
- Stem design features double o-ring seals as well as a safety shear point above the o-rings.
- All of the valve materials comply with standards that are equivalent to NSF Standard 61 for potable water.
- An integrated molded bracket for valve and pipeline mounting is standard.
- Integrated valve support and ISO actuator pads are available.

MATERIALS OF CONSTRUCTION

Body, Ball and Stem:
PVC or CPVC.

Seats:
PTFE.

Seals:
EPDM or Viton® (FPM).

ACTUATOR CONFIGURATIONS

- Electric.
- Pneumatic (spring return).
- Pneumatic (double acting).
- Manual handle lever.

MAXIMUM PRESSURE

232 PSI (at 73°F)

TEMPERATURE RANGE

32°F to 140°F (PVC)
32°F to 212°F (CPVC)

SPECIFICATIONS

Connections:

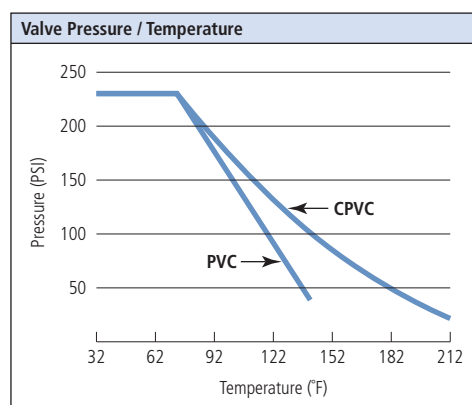
1/2" to 2" NPT threaded,
1/2" to 4" IPS socket.

Standards:

ASTM D1784, ASTM D2464,
ASTM D2466, ASTM D2467,
ASTM F437, ASTM F439,
ASTM F1498, and ANSI B1.20.1.

CV FACTORS

Size	Cv
1/2"	14.0
3/4"	27.0
1"	53.9
1-1/4"	77.0
1-1/2"	123.0
2"	238.0
2-1/2"	368.0
3"	497.0
4"	665.0



P2 Series

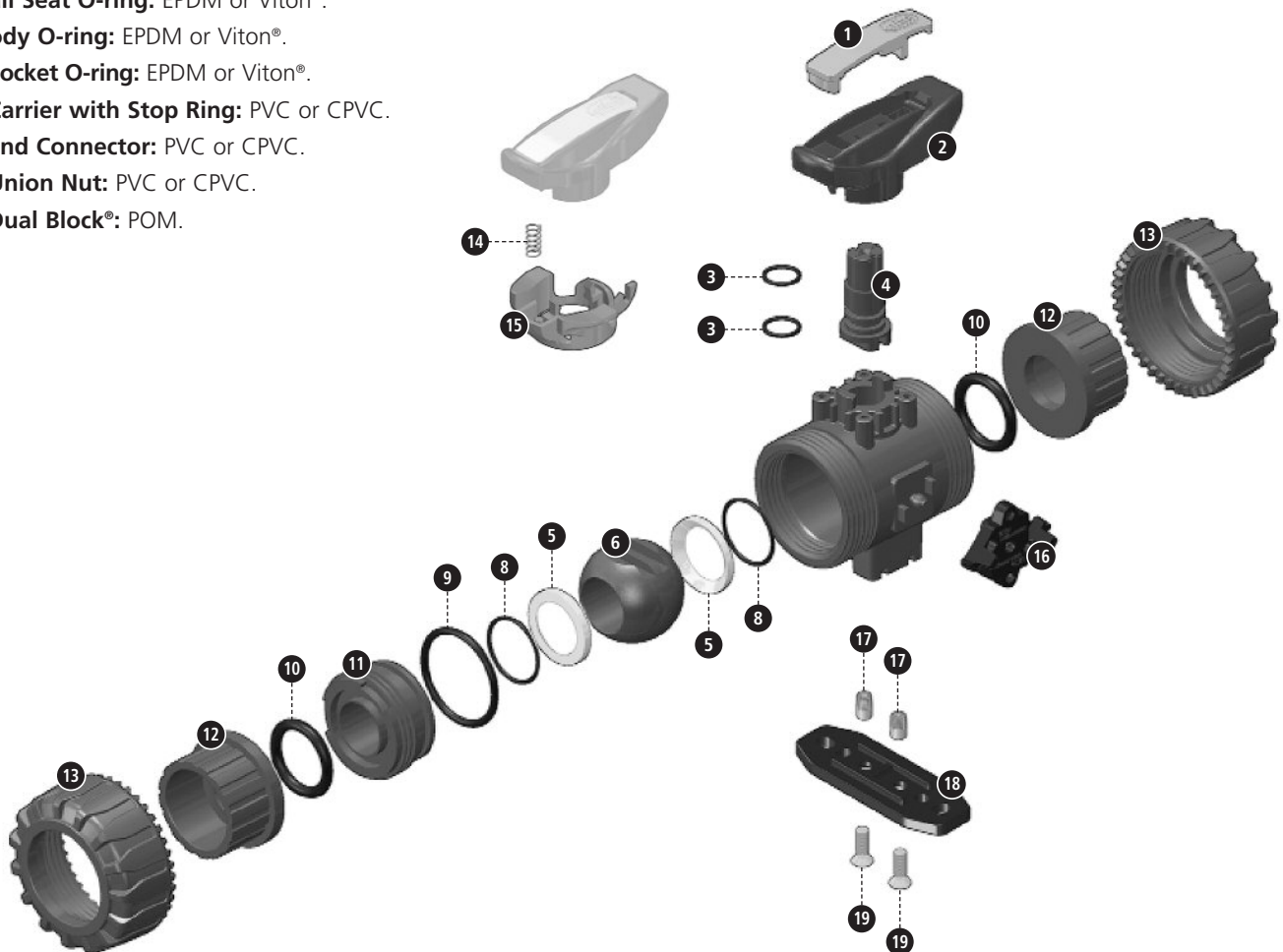
PVC / CPVC full port 2-way ball valve
(1/2" to 4" sizes available)

PARTS

- 1. Insert:** PVC or CPVC.
- 2. Handle:** PVC or CPVC.
- 3. Stem O-ring:** EPDM or Viton®.
- 4. Stem:** PVC or CPVC.
- 5. Ball Seat:** PTFE.
- 6. Ball:** PVC or CPVC.
- 7. Body:** PVC or CPVC.
- 8. Ball Seat O-ring:** EPDM or Viton®.
- 9. Body O-ring:** EPDM or Viton®.
- 10. Socket O-ring:** EPDM or Viton®.
- 11. Carrier with Stop Ring:** PVC or CPVC.
- 12. End Connector:** PVC or CPVC.
- 13. Union Nut:** PVC or CPVC.
- 14. Dual Block®:** POM.

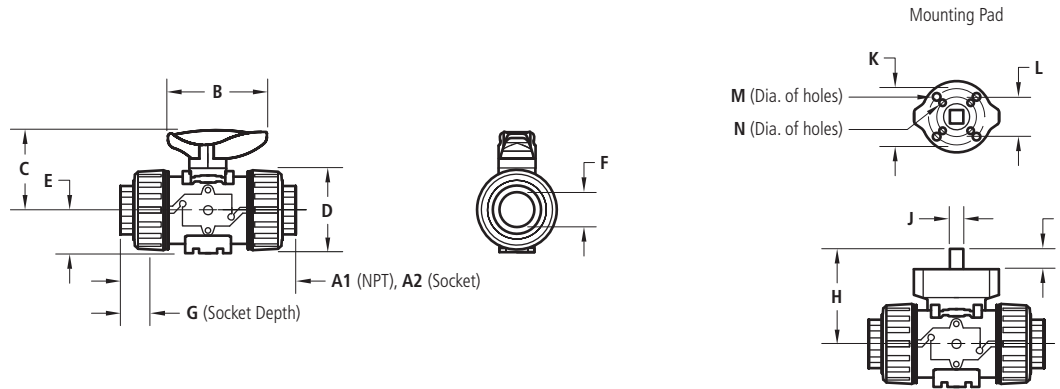
OPTIONAL ACCESSORIES

- 15. Spring:** Stainless steel.
- 16. Handle Lock:** GRPP.
- 17. Bracket Bushing:** Stainless steel or brass.
- 18. Mounting Plate:** GRPP.
- 19. Screw:** Stainless steel.



P2M Series 1/2" to 2" Sizes

PVC / CPVC full port 2-way ball valve
 (NPT threaded or IPS socket end connections)



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A1	A2	B	C	D	E	F	G	Wt. (lbs.)	Model No.
1/2"	4.37	4.61	2.64	2.13	2.13	1.14	.84	.89	.5	CP2⊙⊙⊙M
3/4"	4.61	5.08	3.35	2.56	2.56	1.36	1.05	1.00	.8	DP2⊙⊙⊙M
1"	5.31	5.59	3.35	2.74	2.87	1.54	1.32	1.13	1.1	EP2⊙⊙⊙M
1-1/4"	6.02	6.38	4.25	3.25	3.39	1.81	1.66	1.26	1.6	FP2⊙⊙⊙M
1-1/2"	6.14	6.77	4.25	3.50	3.86	2.05	1.90	1.38	2.3	GP2⊙⊙⊙M
2"	7.32	7.83	5.28	4.25	4.80	2.44	2.38	1.50	4.0	HP2⊙⊙⊙M

⊙ Valve Material: **P** = PVC; **C** = CPVC. ⊙ Seal Material: **E** = EPDM; **V** = Viton®. ⊙ End Connection: **N** = NPT; **S** = Glued Socket.

MOUNTING DIMENSIONS & SPECIFICATIONS

Size	H	I	J	K	L	M	N
1/2"	2.28	0.47	0.43	F04	F03	0.22	0.22
3/4"	2.89	0.47	0.43	F04 / F05	F03	0.22 / 0.26	0.22
1"	2.91	0.47	0.43	F04 / F05	F03	0.22 / 0.26	0.22
1-1/4"	3.82	0.63	0.43 / 0.55	F05	F05	0.26	0.26
1-1/2"	4.09	0.63	0.43 / 0.55	F05	F05	0.26	0.26
2"	4.49	0.63	0.43 / 0.55	F07	F05	0.33	0.26

P2 VALVE FEATURES

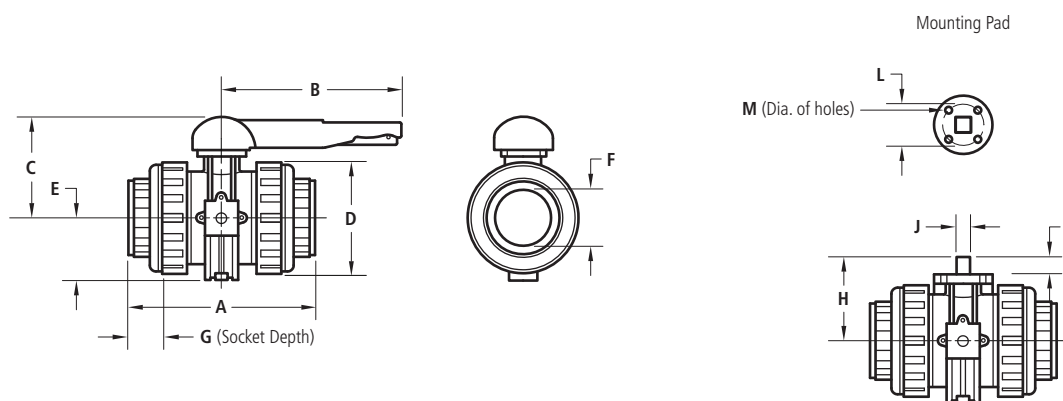
- Full port PVC/CPVC body and ball.
- Bow out proof stem.
- NPT (up to 2") and socket weld end connections.
- PTFE seals.
- Viton® or EPDM stem and body seals.
- Optional actuator mounting block.
- Pressure range: 232 PSI (at 73°F).

LEVER HANDLE FEATURES

- Locking device.

P2M Series 2-1/2" to 4" Sizes

PVC / CPVC full port 2-way ball valve
 (IPS socket end connections)



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	C	D	E	F	G	Wt. (lbs.)	Model No.
2-1/2"	9.25	6.89	2.13	2.13	6.69	2.88	1.75	10.5	IP2⊙⊙⊙M
3"	10.63	10.71	2.56	2.56	7.20	3.50	1.89	17.4	JP2⊙⊙⊙M
4"	12.13	12.99	2.74	2.87	7.91	4.50	2.26	27.0	KP2⊙⊙⊙M

⊙ Valve Material: **P** = PVC; **C** = CPVC. ⊙ Seal Material: **E** = EPDM; **V** = Viton®. ⊙ End Connection: **N** = NPT; **S** = Glued Socket.

MOUNTING DIMENSIONS & SPECIFICATIONS

Size	H	I	J	L	M
2-1/2"	4.69	0.63	0.55	F07	0.35
3"	5.20	0.63	0.55	F07	0.35
4"	5.91	0.75	0.67	F07	0.35

P2 VALVE FEATURES

- Full port PVC/CPVC body and ball.
- Bow out proof stem.
- NPT (up to 2") and socket weld end connections.
- PTFE seals.
- Viton® or EPDM stem and body seals.
- Optional actuator mounting block.
- Pressure range: 232 PSI (at 73°F).

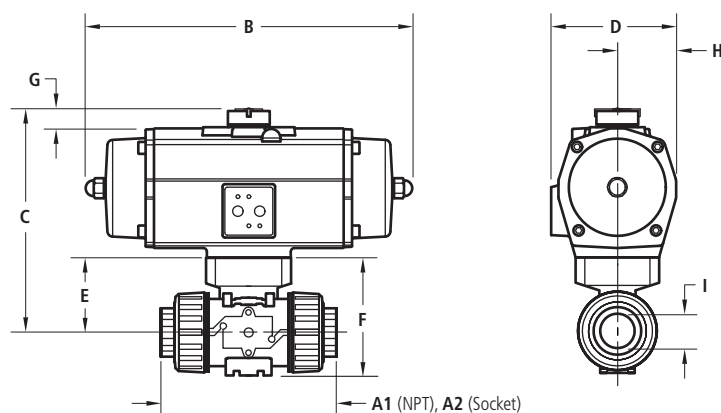
LEVER HANDLE FEATURES

- Locking device.

P2ESR Series

PVC / CPVC full port 2-way ball valve with spring return pneumatic actuator

(NPT threaded or IPS socket end connections, actuators are sized for 150 PSI pressure differential)



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A1	A2	B	C	D	E	F	G	H	I	Actuator	Wt. (lbs.)	Model No.
80 PSI Minimum Actuator Air Supply = 85													
1/2"	4.37	4.61	4.65	5.43	2.36	2.28	3.42	.79	1.06	.84	ES12	2.0	CP2○○○○E8S
3/4"	4.61	5.08	6.77	6.83	3.26	2.89	4.25	.79	1.46	1.05	ES25	4.5	DP2○○○○E8S
1"	5.31	5.59	6.77	6.85	3.26	2.91	4.45	.79	1.46	1.32	ES25	4.8	EP2○○○○E8S
1-1/4"	6.02	6.38	6.77	7.76	3.26	3.82	5.63	.79	1.46	1.66	ES25	5.3	FP2○○○○E8S
1-1/2"	6.14	6.77	6.77	8.03	3.26	4.09	6.14	.79	1.46	1.90	ES25	6.0	GP2○○○○E8S
2"	7.32	7.83	8.03	8.94	3.78	4.49	6.93	.79	1.70	2.38	ES40	9.3	HP2○○○○E8S
2-1/2"	-	9.25	9.80	11.61	4.19	6.69	10.12	.79	1.93	2.88	ES65	22.4	IP2○○○○E8S
3"	-	10.63	10.51	12.12	4.60	7.20	11.33	.79	2.12	3.50	ES100	31.5	JP2○○○○E8S
4"	-	12.13	14.17	14.33	5.39	7.91	12.99	.79	2.52	4.50	ES200	51.1	KP2○○○○E8S
60 PSI Minimum Actuator Air Supply = 65													
1/2"	4.37	4.61	4.65	5.43	2.36	2.28	3.42	.79	1.06	.84	ES12	2.0	CP2○○○○E6S
3/4"	4.61	5.08	6.77	6.83	3.26	2.89	4.25	.79	1.46	1.05	ES25	4.5	DP2○○○○E6S
1"	5.31	5.59	6.77	6.85	3.26	2.91	4.45	.79	1.46	1.32	ES25	4.8	EP2○○○○E6S
1-1/4"	6.02	6.38	6.77	7.76	3.26	3.82	5.63	.79	1.46	1.66	ES25	5.3	FP2○○○○E6S
1-1/2"	6.14	6.77	6.77	8.03	3.26	4.09	6.14	.79	1.46	1.90	ES25	6.0	GP2○○○○E6S
2"	7.32	7.83	8.03	8.94	3.78	4.49	6.93	.79	1.70	2.38	ES40	9.3	HP2○○○○E6S
2-1/2"	-	9.25	10.51	12.13	4.60	6.69	10.12	.79	2.12	2.88	ES100	24.6	IP2○○○○E6S
3"	-	10.63	14.17	13.62	5.39	7.20	11.33	.79	2.52	3.50	ES200	41.5	JP2○○○○E6S
4"	-	12.13	14.17	14.33	5.39	7.91	12.99	.79	2.52	4.50	ES200	51.1	KP2○○○○E6S

⊙ Valve Material: **P** = PVC; **C** = CPVC. ⊙ Seal Material: **E** = EPDM; **V** = Viton®. ⊙ End Connection: **N** = NPT; **S** = Glued Socket.
 Note: Dimensions C, E, and F include a 2" high bracket for valve sizes 2-1/2" through 4".

P2 VALVE FEATURES

- Full port PVC/CPVC body and ball.
- Bow out proof stem.
- NPT (up to 2") and socket weld end connections.
- PTFE seals, Viton® or EPDM stem and body seals.
- Optional actuator mounting block.
- Pressure range: 232 PSI (at 73°F).

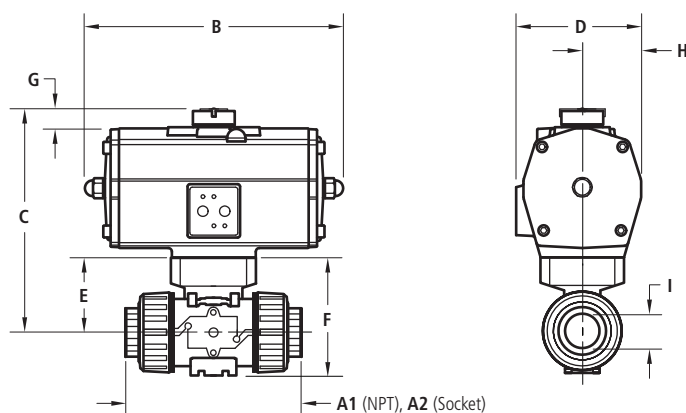
PNEUMATIC ACTUATOR FEATURES

- E Series spring return rack and pinion actuator.
- Corrosion resistant coating.
- NAMUR solenoid mounting pad, ISO 5211 mounting standard.
- Visual position indicator.
- High duty cycle, permanent lubrication.
- Temperature range: -4°F to 175°F.

P2EDA Series

PVC / CPVC full port 2-way ball valve with double acting pneumatic actuator

(NPT threaded or IPS socket end connections, actuators are sized for 150 PSI pressure differential)



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A1	A2	B	C	D	E	F	G	H	I	Actuator	Wt. (lbs.)	Model No.
80 PSI Minimum Actuator Air Supply = 8D													
1/2"	4.37	4.61	4.06	5.43	2.36	2.28	3.42	.79	1.06	.84	ED12	1.8	CP2○○○○E8D
3/4"	4.61	5.08	6.26	6.83	3.26	2.89	4.25	.79	1.46	1.05	ED25	3.7	DP2○○○○E8D
1"	5.31	5.59	6.26	6.85	3.26	2.91	4.45	.79	1.46	1.32	ED25	4.0	EP2○○○○E8D
1-1/4"	6.02	6.38	6.26	7.76	3.26	3.82	5.63	.79	1.46	1.66	ED25	4.5	FP2○○○○E8D
1-1/2"	6.14	6.77	6.26	8.03	3.26	4.09	6.14	.79	1.46	1.90	ED25	5.2	GP2○○○○E8D
2"	7.32	7.83	7.09	8.94	3.78	4.49	6.93	.79	1.70	2.38	ED40	8.0	HP2○○○○E8D
2-1/2"	-	9.25	7.83	11.61	4.19	6.69	10.12	.79	1.93	2.88	ED65	19.8	IP2○○○○E8D
3"	-	10.63	7.83	12.12	4.19	7.20	11.33	.79	1.93	3.50	ED65	26.7	JP2○○○○E8D
4"	-	12.13	11.14	14.33	5.39	7.91	12.99	.79	2.52	4.50	ED200	43.8	KP2○○○○E8D
60 PSI Minimum Actuator Air Supply = 6D													
1/2"	4.37	4.61	4.06	5.43	2.36	2.28	3.42	.79	1.06	.84	ED12	1.8	CP2○○○○E6D
3/4"	4.61	5.08	6.26	6.83	3.26	2.89	4.25	.79	1.46	1.05	ED25	3.7	DP2○○○○E6D
1"	5.31	5.59	6.26	6.85	3.26	2.91	4.45	.79	1.46	1.32	ED25	4.0	EP2○○○○E6D
1-1/4"	6.02	6.38	6.26	7.76	3.26	3.82	5.63	.79	1.46	1.66	ED25	4.5	FP2○○○○E6D
1-1/2"	6.14	6.77	6.26	8.03	3.26	4.09	6.14	.79	1.46	1.90	ED25	5.2	GP2○○○○E6D
2"	7.32	7.83	7.09	8.94	3.78	4.49	6.93	.79	1.70	2.38	ED40	8.0	HP2○○○○E6D
2-1/2"	-	9.25	7.83	11.61	4.19	6.69	10.12	.79	1.93	2.88	ED65	19.8	IP2○○○○E6D
3"	-	10.63	7.83	12.12	4.19	7.20	11.33	.79	1.93	3.50	ED65	26.7	JP2○○○○E6D
4"	-	12.13	11.14	14.33	5.39	7.91	12.99	.79	2.52	4.50	ED200	43.8	KP2○○○○E6D

⊙ Valve Material: **P** = PVC; **C** = CPVC. ⊙ Seal Material: **E** = EPDM; **V** = Viton®. ⊙ End Connection: **N** = NPT; **S** = Glued Socket.
 Note: Dimensions C, E, and F include a 2" high bracket for valve sizes 2-1/2" through 4".

P2 VALVE FEATURES

- Full port PVC/CPVC body and ball.
- Bow out proof stem.
- NPT (up to 2") and socket weld end connections.
- PTFE seals, Viton® or EPDM stem and body seals.
- Optional actuator mounting block.
- Pressure range: 232 PSI (at 73°F).

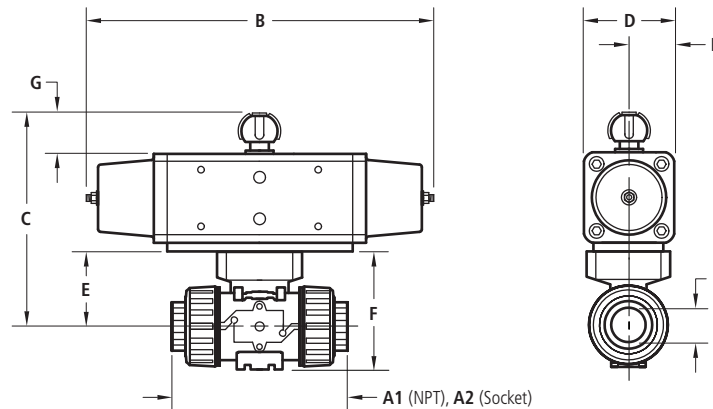
PNEUMATIC ACTUATOR FEATURES

- E Series double acting rack and pinion actuator.
- Corrosion resistant coating.
- NAMUR solenoid mounting pad, ISO 5211 mounting standard.
- Visual position indicator.
- High duty cycle, permanent lubrication.
- Temperature range: -4°F to 175°F.

P2OSR Series

PVC / CPVC full port 2-way ball valve with spring return pneumatic actuator

(NPT threaded or IPS socket end connections, actuators are sized for 150 PSI pressure differential)



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A1	A2	B	C	D	E	F	G	H	I	Actuator	Wt. (lbs.)	Model No.
80 PSI Minimum Actuator Air Supply = 8S													
1/2"	4.37	4.61	9.45	5.82	2.56	2.28	3.42	.79	1.28	.84	PS030	5.0	CP200008S
3/4"	4.61	5.08	9.45	6.43	2.56	2.89	4.25	.79	1.28	1.05	PS030	5.2	DP200008S
1"	5.31	5.59	9.45	6.45	2.56	2.91	4.45	.79	1.28	1.32	PS030	5.5	EP200008S
1-1/4"	6.02	6.38	9.45	7.36	2.56	3.82	5.63	.79	1.28	1.66	PS030	6.1	FP200008S
1-1/2"	6.14	6.77	9.45	7.63	2.56	4.09	6.14	.79	1.28	1.90	PS030	6.7	GP200008S
2"	7.32	7.83	11.58	8.33	2.83	4.49	6.93	.79	1.41	2.38	PS045	9.3	HP200008S
2-1/2"	-	9.25	11.58	10.53	2.83	6.69	10.12	.79	1.41	2.88	PS045	19.8	IP200008S
3"	-	10.63	14.06	12.16	3.54	7.20	11.33	1.18	1.77	3.50	PS090	31.5	JP200008S
4"	-	12.13	14.65	13.26	3.94	7.91	12.99	1.18	1.97	4.50	PS120	45.7	KP200008S
60 PSI Minimum Actuator Air Supply = 6S													
1/2"	4.37	4.61	9.45	5.82	2.56	2.28	3.42	.79	1.28	.84	PS030	5.0	CP200006S
3/4"	4.61	5.08	9.45	6.43	2.56	2.89	4.25	.79	1.28	1.05	PS030	5.2	DP200006S
1"	5.31	5.59	9.45	6.45	2.56	2.91	4.45	.79	1.28	1.32	PS030	5.5	EP200006S
1-1/4"	6.02	6.38	9.45	7.36	2.56	3.82	5.63	.79	1.28	1.66	PS030	6.1	FP200006S
1-1/2"	6.14	6.77	9.45	7.63	2.56	4.09	6.14	.79	1.28	1.90	PS030	6.7	GP200006S
2"	7.32	7.83	11.58	8.33	2.83	4.49	6.93	.79	1.41	2.38	PS045	9.3	HP200006S
2-1/2"	-	9.25	12.60	11.25	3.15	6.69	10.12	1.18	1.57	2.88	PS060	22.2	IP200006S
3"	-	10.63	14.06	12.16	3.54	7.20	11.33	1.18	1.77	3.50	PS090	31.5	JP200006S
4"	-	12.13	14.65	13.26	3.94	7.91	12.99	1.18	1.97	4.50	PS120	45.7	KP200006S

⊙ Valve Material: **P** = PVC; **C** = CPVC. ⊙ Seal Material: **E** = EPDM; **V** = Viton®. ⊙ End Connection: **N** = NPT; **S** = Glued Socket.
 Note: Dimensions C, E, and F include a 2" high bracket for valve sizes 2-1/2" through 4".

P2 VALVE FEATURES

- Full port PVC/CPVC body and ball.
- Bow out proof stem.
- NPT (up to 2") and socket weld end connections.
- PTFE seals, Viton® or EPDM stem and body seals.
- Optional actuator mounting block.
- Pressure range: 232 PSI (at 73°F).

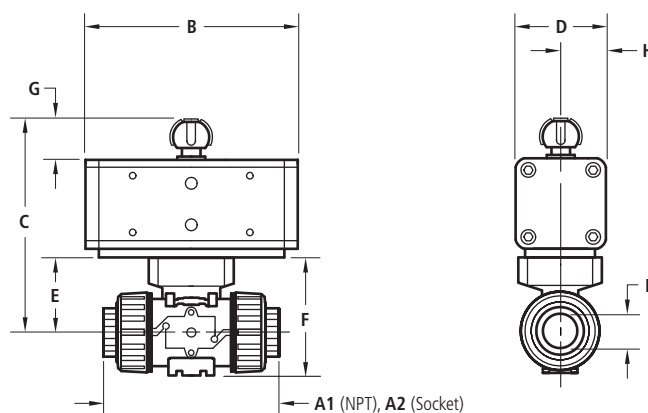
PNEUMATIC ACTUATOR FEATURES

- O Series spring return pneumatic actuator.
- Corrosion resistant coating.
- NAMUR solenoid mounting pad, ISO 5211 mounting standard.
- Visual position indicators.
- High duty cycle, permanent lubrication.
- Temperature range: -4°F to 175°F.

P2ODA Series

PVC / CPVC full port 2-way ball valve with double acting pneumatic actuator

(NPT threaded or IPS socket end connections, actuators are sized for 150 PSI pressure differential)



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A1	A2	B	C	D	E	F	G	H	I	Actuator	Wt. (lbs.)	Model No.
80 PSI Minimum Actuator Air Supply = 8D													
1/2"	4.37	4.61	5.67	5.65	2.36	2.28	3.42	.79	1.18	.84	PD045	3.3	CP2⊙⊙⊙08D
3/4"	4.61	5.08	5.67	6.26	2.36	2.89	4.25	.79	1.18	1.05	PD045	3.6	DP2⊙⊙⊙08D
1"	5.31	5.59	5.67	6.28	2.36	2.91	4.45	.79	1.18	1.32	PD045	3.9	EP2⊙⊙⊙08D
1-1/4"	6.02	6.38	5.67	7.19	2.36	3.82	5.63	.79	1.18	1.66	PD045	4.4	FP2⊙⊙⊙08D
1-1/2"	6.14	6.77	5.67	7.46	2.36	4.09	6.14	.79	1.18	1.90	PD045	5.1	GP2⊙⊙⊙08D
2"	7.32	7.83	6.65	8.03	2.83	4.49	6.93	.79	1.41	2.38	PD090	8.1	HP2⊙⊙⊙08D
2-1/2"	-	9.25	6.65	10.53	2.83	6.69	10.12	.79	1.41	2.88	PD090	18.6	IP2⊙⊙⊙08D
3"	-	10.63	6.65	11.04	2.83	7.20	11.33	.79	1.41	3.50	PD090	25.5	JP2⊙⊙⊙08D
4"	-	12.13	8.35	12.87	3.54	7.91	12.99	1.18	1.77	4.50	PD180	38.5	KP2⊙⊙⊙08D
60 PSI Minimum Actuator Air Supply = 6D													
1/2"	4.37	4.61	5.67	5.65	2.36	2.28	3.42	.79	1.18	.84	PD045	3.3	CP2⊙⊙⊙06D
3/4"	4.61	5.08	5.67	6.26	2.36	2.89	4.25	.79	1.18	1.05	PD045	3.6	DP2⊙⊙⊙06D
1"	5.31	5.59	5.67	6.28	2.36	2.91	4.45	.79	1.18	1.32	PD045	3.9	EP2⊙⊙⊙06D
1-1/4"	6.02	6.38	5.67	7.19	2.36	3.82	5.63	.79	1.18	1.66	PD045	4.4	FP2⊙⊙⊙06D
1-1/2"	6.14	6.77	5.67	7.46	2.36	4.09	6.14	.79	1.18	1.90	PD045	5.1	GP2⊙⊙⊙06D
2"	7.32	7.83	6.65	8.03	2.83	4.49	6.93	.79	1.41	2.38	PD090	8.1	HP2⊙⊙⊙06D
2-1/2"	-	9.25	6.65	10.53	2.83	6.69	10.12	.79	1.41	2.88	PD090	18.6	IP2⊙⊙⊙06D
3"	-	10.63	6.65	11.04	2.83	7.20	11.33	.79	1.41	3.50	PD090	25.5	JP2⊙⊙⊙06D
4"	-	12.13	8.35	12.87	3.54	7.91	12.99	1.18	1.77	4.50	PD180	38.5	KP2⊙⊙⊙06D

⊙ Valve Material: **P** = PVC; **C** = CPVC. ⊙ Seal Material: **E** = EPDM; **V** = Viton®. ⊙ End Connection: **N** = NPT; **S** = Glued Socket.
 Note: Dimensions C, E, and F include a 2" high bracket for valve sizes 2-1/2" through 4".

P2 VALVE FEATURES

- Full port PVC/CPVC body and ball.
- Bow out proof stem.
- NPT (up to 2") and socket weld end connections.
- PTFE seals, Viton® or EPDM stem and body seals.
- Optional actuator mounting block.
- Pressure range: 232 PSI (at 73°F).

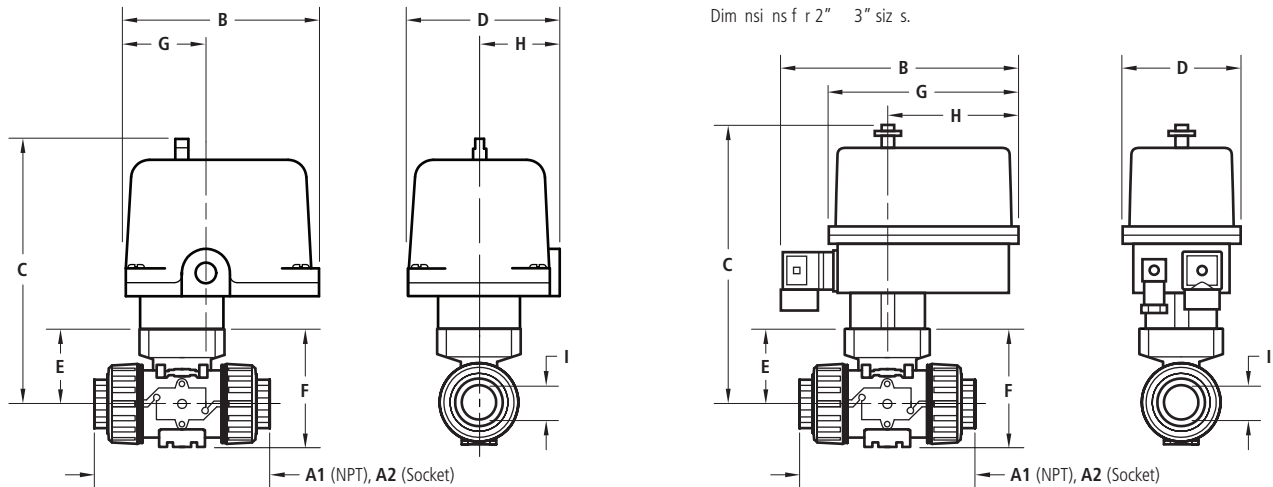
PNEUMATIC ACTUATOR FEATURES

- O Series double acting pneumatic actuator.
- Corrosion resistant coating.
- NAMUR solenoid mounting pad, ISO 5211 mounting standard.
- Visual position indicators.
- High duty cycle, permanent lubrication.
- Temperature range: -4°F to 175°F.

P2R4 Series

PVC / CPVC full port 2-way ball valve with electric actuator, NEMA 4, 4X

(NPT threaded or IPS socket end connections, actuators are sized for 150 PSI pressure differential)



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A1	A2	B	C	D	E	F	G	H	I	Actuator	Wt. (lbs.)	Model No.
1/2"	4.37	4.61	9.75	11.72	3.88	2.28	3.42	7.75	3.75	.84	RM150	4.5	CP2⊙⊙⊙R4⊙
3/4"	4.61	5.08	9.75	12.33	3.88	2.89	4.25	7.75	3.75	1.05	RM150	4.8	DP2⊙⊙⊙R4⊙
1"	5.31	5.59	9.75	12.35	3.88	2.91	4.45	7.75	3.75	1.32	RM150	5.1	EP2⊙⊙⊙R4⊙
1-1/4"	6.02	6.38	9.75	13.26	3.88	3.82	5.63	7.75	3.75	1.66	RM150	5.6	FP2⊙⊙⊙R4⊙
1-1/2"	6.14	6.77	9.75	13.53	3.88	4.09	6.14	7.75	3.75	1.90	RM150	6.3	GP2⊙⊙⊙R4⊙
2"	7.32	7.83	5.95	10.54	4.73	4.49	6.93	2.48	2.20	2.38	R300	10.0	HP2⊙⊙⊙R4⊙
2-1/2"	-	9.25	5.95	12.74	4.73	6.69	10.12	2.48	2.20	2.88	R300	20.5	IP2⊙⊙⊙R4⊙
3"	-	10.63	5.95	13.25	4.73	7.20	11.33	2.48	2.20	3.50	R600	27.4	JP2⊙⊙⊙R4⊙

⊙ Valve Material: **P** = PVC; **C** = CPVC. ⊙ Seal Material: **E** = EPDM; **V** = Viton®. ⊙ End Connection: **N** = NPT; **S** = Glued Socket. ⊙ Voltage: **A** = 120 VAC; **B** = 24 VDC; **F** = 12 VDC.

P2 VALVE FEATURES

- Full port PVC/CPVC body and ball.
- Bow out proof stem.
- NPT (up to 2") and socket weld end connections.
- PTFE seals.
- Viton® or EPDM stem and body seals.
- Optional actuator mounting block.
- Pressure range: 232 PSI (at 73°F).

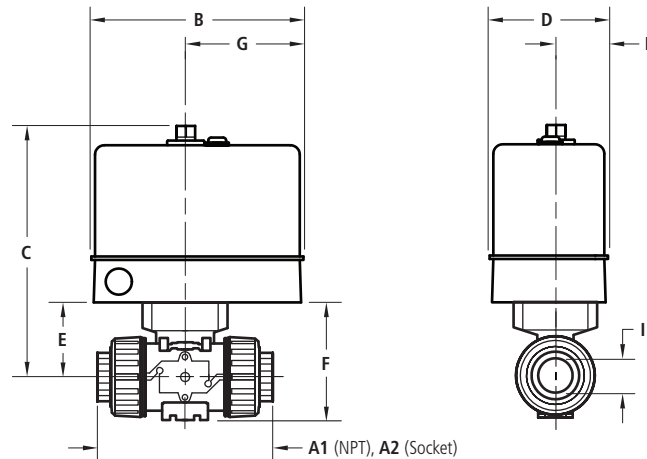
ELECTRIC ACTUATOR FEATURES

- R Series electric actuator.
- NEMA 4, 4X.
- Voltages available: 120 VAC, 12 VDC, 24 VDC.
- Duty cycle: 25% at 120 VAC, 100% at DC units.
- ISO 5211 universal mounting.
- Manual override.
- Permanent lubrication.
- Visual position indicator.
- Temperature range: 0°F to 150°F.

P2V4 Series

PVC / CPVC full port 2-way ball valve with electric actuator, NEMA 4, 4X

(NPT threaded or IPS socket end connections, actuators are sized for 150 PSI pressure differential)



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A1	A2	B	C	D	E	F	G	H	I	Actuator	Wt. (lbs.)	Model No.
1/2"	4.37	4.61	5.50	6.51	3.00	2.28	3.42	3.06	1.38	.84	EV1S1V1	5.5	CP2⊙⊙⊙V4⊙
3/4"	4.61	5.08	5.50	7.12	3.00	2.89	4.25	3.06	1.38	1.05	EV1S1V1	5.8	DP2⊙⊙⊙V4⊙
1"	5.31	5.59	5.50	7.14	3.00	2.91	4.45	3.06	1.38	1.32	EV1S1V1	6.1	EP2⊙⊙⊙V4⊙
1-1/4"	6.02	6.38	5.50	8.05	3.00	3.82	5.63	3.06	1.38	1.66	EV1S1V1	6.6	FP2⊙⊙⊙V4⊙
1-1/2"	6.14	6.77	5.50	8.32	3.00	4.09	6.14	3.06	1.38	1.90	EV1S1V1	7.3	GP2⊙⊙⊙V4⊙
2"	7.32	7.83	5.50	8.72	3.00	4.49	6.93	3.06	1.38	2.38	EV3S2V1	9.0	HP2⊙⊙⊙V4⊙

⊙ Valve Material: **P** = PVC; **C** = CPVC. ⊙ Seal Material: **E** = EPDM; **V** = Viton®. ⊙ End Connection: **N** = NPT; **S** = Glued Socket. ⊙ Voltage: **A** = 120 VAC; **B** = 24 VDC.

P2 VALVE FEATURES

- Full port PVC/CPVC body and ball.
- Bow out proof stem.
- NPT (up to 2") and socket weld end connections.
- PTFE seals.
- Viton® or EPDM stem and body seals.
- Optional actuator mounting block.
- Pressure range: 232 PSI (at 73°F).

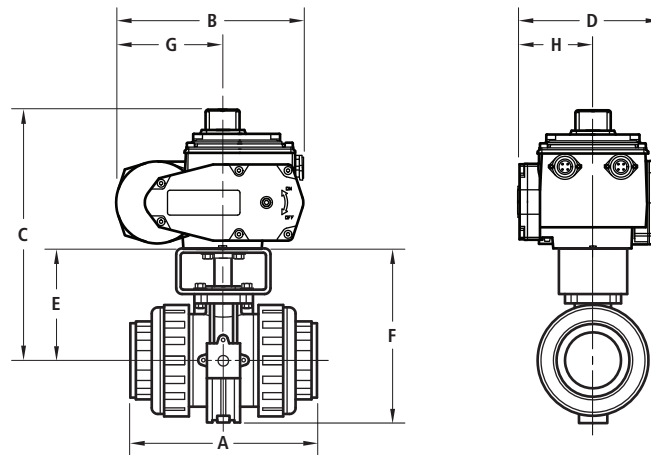
ELECTRIC ACTUATOR FEATURES

- V Series electric actuator.
- NEMA 4, 4X.
- Voltages available: 120 VAC, 220 VAC, 24 VAC, 12 VDC, 24VDC.
- Duty cycle: 25% at 120 VAC (EV1), 75% at 120 VAC (EV3, NV6), 100% at DC units.
- ISO 5211 universal mounting.
- Manual override.
- Permanent lubrication.
- Visual position indicator.
- Temperature range: 0°F to 160°F.

P2I4 Series

PVC / CPVC full port 2-way ball valve with electric actuator, NEMA 4, 4X

(NPT threaded or IPS socket end connections, actuators are sized for 150 PSI pressure differential)



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	C	D	E	F	G	I	Actuator	Wt. (lbs.)	Model No.
2-1/2"	9.25	7.56	12.09	5.20	6.69	10.12	2.21	2.88	I40300	22.4	IP2⊙⊙⊙I4⊙
3"	10.63	7.56	02.60	5.36	7.20	11.33	2.37	3.50	I40600	29.3	JP2⊙⊙⊙I4⊙
4"	12.13	8.73	13.31	6.30	7.91	12.99	3.31	4.50	I41150	38.9	KP2⊙⊙⊙I4⊙

⊙ Valve Material: **P** = PVC; **C** = CPVC. ⊙ Seal Material: **E** = EPDM; **V** = Viton®. ⊙ End Connection: **N** = NPT; **S** = Glued Socket. ⊙ Voltage: **A** = 120 VAC; **B** = 24 VDC.
 Note: Dimensions C, E, and F include a 2" high bracket for valve sizes 2-1/2" through 4".

P2 VALVE FEATURES

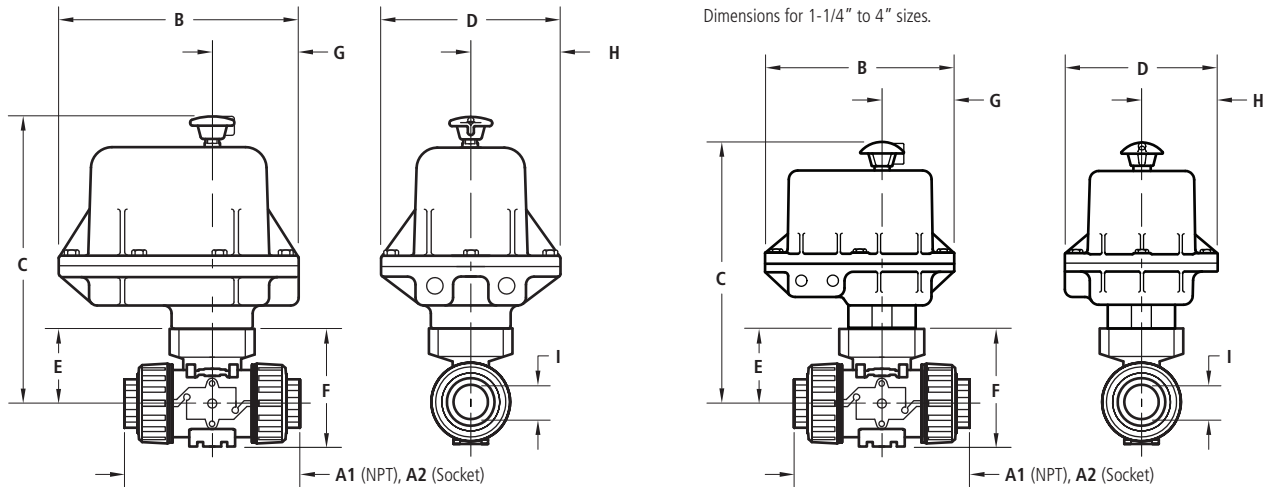
- Full port PVC/CPVC body and ball.
- Bow out proof stem.
- NPT (up to 2") and socket weld end connections.
- PTFE seals.
- Viton® or EPDM stem and body seals.
- Optional actuator mounting block.
- Pressure range: 232 PSI (at 73°F).

ELECTRIC ACTUATOR FEATURES

- I4 Series electric actuator.
- Weatherproof enclosure IP65.
- Voltages available: 115 VAC, 24 VAC/VDC.
- Duty cycle: 50%.
- IP65 electrical connectors.
- Space heater.
- Extra (2) SPDT adjustable limit switches.
- Temperature range: 0°F to 140°F.

P2B7 Series

PVC / CPVC full port 2-way ball valve with explosion proof electric actuator, NEMA 7, 120 VAC
 (NPT threaded or IPS socket end connections, actuators are sized for 150 PSI pressure differential)



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A1	A2	B	C	D	E	F	G	H	I	Actuator	Wt. (lbs.)	Model No.
1/2"	4.37	4.61	8.25	9.78	6.25	2.28	3.42	3.75	3.12	.84	EM300_4	18.5	CP2@@@B7
3/4"	4.61	5.08	8.25	10.39	6.25	2.89	4.25	3.75	3.12	1.05	EM300_4	18.8	DP2@@@B7
1"	5.31	5.59	8.25	10.41	6.25	2.91	4.45	3.75	3.12	1.32	EM300_4	19.1	EP2@@@B7
1-1/4"	6.02	6.38	9.25	13.26	7.75	3.82	5.63	3.75	3.88	1.66	EM500_5	19.6	FP2@@@B7
1-1/2"	6.14	6.77	9.25	13.53	7.75	4.09	6.14	3.75	3.88	1.90	EM500_5	20.3	GP2@@@B7
2"	7.32	7.83	9.25	13.93	7.75	4.49	6.93	3.75	3.88	2.38	EM500_5	22.0	HP2@@@B7
2-1/2"	-	9.25	9.25	16.13	7.75	6.69	10.12	3.75	3.88	2.88	EM500_5	32.5	IP2@@@B7
3"	-	10.63	9.25	16.64	7.75	7.20	11.33	3.75	3.88	3.50	EM510_5	39.4	JP2@@@B7
4"	-	12.13	9.25	17.35	7.75	7.91	12.99	3.75	3.88	4.50	EM510_5	49.0	KP2@@@B7

⊙ Valve Material: **P** = PVC; **C** = CPVC. ⊙ Seal Material: **E** = EPDM; **V** = Viton®. ⊙ End Connection: **N** = NPT; **S** = Glued Socket.
 Note: Dimensions C, E, and F include a 2" high bracket for valve sizes 2-1/2" through 4".

P2 VALVE FEATURES

- Full port PVC/CPVC body and ball.
- Bow out proof stem.
- NPT (up to 2") and socket weld end connections.
- PTFE seals.
- Viton® or EPDM stem and body seals.
- Optional actuator mounting block.
- Pressure range: 232 PSI (at 73°F).

ELECTRIC ACTUATOR FEATURES

- B7 Series electric actuator.
- Actuator speed: 15 sec.
- NEMA 4, 7 and 9; CSA approved.
- Weatherproof.
- Class I Groups C and D, Div. 1.
- Class II Groups E, F and G.
- (2) 1/2" NPT conduit entries.
- Manual override.
- Visual position indicator.
- CSA certified.
- Temperature range: 0°F to 160°F.

911 Series

PFA Lined 2-way Full Port Ball Valve



The 911 is a PFA lined, ANSI Class 150 flanged full port ball valve. It can be equipped with a manual handle or with pneumatic or electric actuators.

A full range of accessory items are available including limit switches, solenoid valves, positioners and manual override devices.

FEATURES

- Unpigmented PFA liner.
- PFA liner is "locked-in" to body, ball, and stem.
- Full port for unrestricted flow.
- Rugged and versatile.
- Anti-blowout stem.
- Bi-directional laminar flow.
- Live loading of gland packing.
- Superior long-lasting shut-off.
- Superior body joint technology.
- Complete line of accessories.

TYPICAL APPLICATIONS

- Clean, corrosive, or hazardous liquids and gases.
- Viscous liquids.
- Food, pharmaceutical, and dry materials.

ACTUATOR CONFIGURATIONS

- Electric.
- Pneumatic (spring return).
- Pneumatic (double acting).
- Manual handle.
- Gear operator.

PRESSURE RANGE

29 inHg vacuum to 275 PSI

TEMPERATURE RANGE

0°F to 400°F

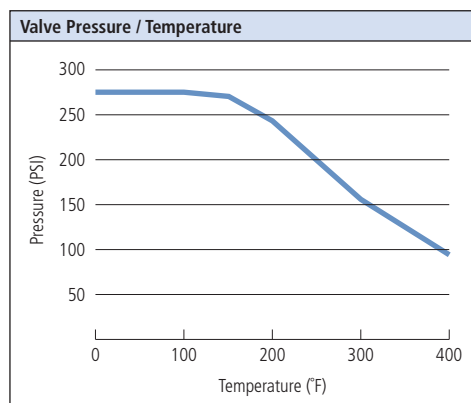
MATERIALS OF CONSTRUCTION

Seats and Seals:
PTFE.

Body, Ball and Stem:
PFA lined ductile iron.

CV FACTORS

Size	CV
1"	57
1-1/2"	213
2"	295
3"	670
4"	1400
6"	3000



V Series

V Port 2-way Ball Valve



The V Series ball valve provides accurate control of down-stream flow rates, from simple on-off to modulating control applications. The throttling part of the valve is a solid stainless steel ball, not a seat insert like others. The unique V Series ball design is forgiving, accommodating, and characterized to meet all custom flow requirements.

V Series valves are designed to offer maximum flow coefficients (Cv) which are substantially larger than other throttling ball valves. In many cases, half size pipeline valves can be used resulting in space reduction, reduced maintenance and delivering great cost reductions.

FEATURES

- Higher flow capacities and excellent repeatability.
- Bubble-tight shut-off.
- Controllable flow rates.
- Non-clogging flow streams for general and slurry applications.
- High pressure drop capability with straight through flow.
- Self-compensating live-loaded stem packing.
- Maintenance is as easy as changing a standard seat.
- High temperature ball seats.
- Matched ball and stem.
- Economical low operating cost.

MATERIALS OF CONSTRUCTION

Body:

Stainless steel (V200, V300 & V350T),
stainless steel or carbon steel (V150F & V300F).

Seats:

TFM or 50/50 (V200, V300, V150F & V300F),
PTFE (V350T).

V SERIES MODEL NUMBERING

Model Number:

V X

End Connections:

200 = NPT threaded

300 = IPS socket

350T = Tri-clamp

150F = 150 lb ANSI flanged

300F = 300 lb ANSI flanged

ACTUATOR CONFIGURATIONS

- Electric (weatherproof) with 4-20 mA positioner.
- Electric (explosion proof) with 4-20 mA positioner.
- Pneumatic (spring return) with 4-20 mA positioner or 3-15 PSI positioner.
- Pneumatic (double acting) with 4-20 mA positioner or 3-15 PSI positioner.

MAXIMUM PRESSURE

Class 150:

Body: 275 PSI

Class 300:

Body: 700 PSI

MAXIMUM TEMPERATURE

425°F (PTFE)

475°F (TFM)

525°F (50/50)

SPECIFICATIONS

Connections:

1/2" to 4" NPT threaded,
IPS socket & tri-clamp,
1/2" to 8" flanged.

V Series

V port 2-way ball valve

(1/2" to 4" NPT threaded, IPS socket & tri-clamp, 1/2" to 8" flanged sizes available)

Cv FACTORS

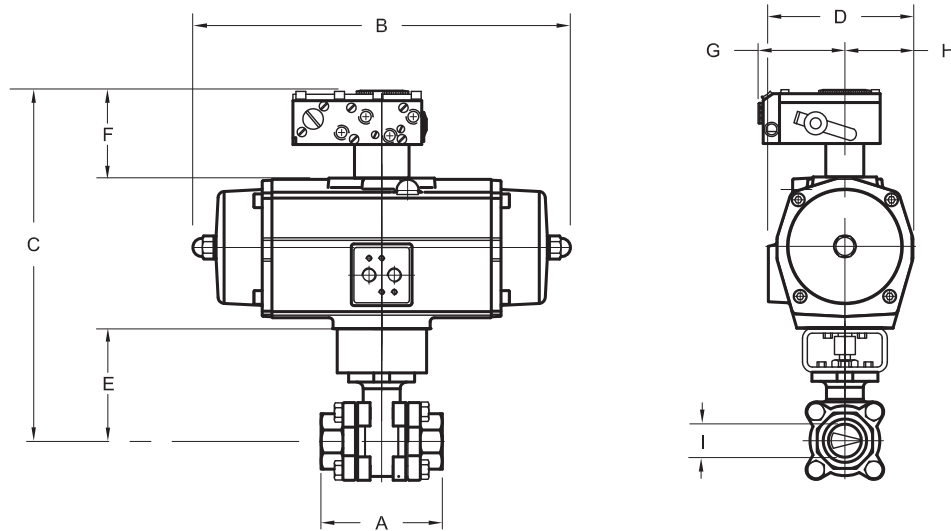
Size	V-Port Drilling	Cv										
		Percent / Angle of Ball Rotation										
		0% / 0°	10% / 9°	20% / 18°	30% / 27°	40% / 36°	50% / 45°	60% / 54°	70% / 63°	80% / 72°	90% / 81°	100% / 90°
1/2"	30°	0	0.04	0.23	0.47	0.77	1.19	1.83	2.47	3.43	4.65	5.58
	60°	0	0.05	0.28	0.73	1.11	1.83	2.92	4.29	7.00	9.43	12.78
3/4"	30°	0	0.07	0.30	0.61	0.99	1.57	2.42	3.25	4.52	6.12	7.34
	60°	0	0.08	0.35	0.93	1.46	2.42	3.85	5.64	9.21	12.41	16.28
1"	30°	0	0.08	0.45	1.25	2.06	3.54	5.30	7.70	10.49	12.84	15.48
	60°	0	0.09	0.68	1.74	2.78	5.13	8.00	11.88	18.71	23.22	32.84
1-1/4"	30°	0	0.06	0.48	1.37	2.47	4.12	6.08	8.82	11.76	14.87	17.39
	60°	0	0.07	0.67	2.04	3.41	6.47	10.80	15.39	22.35	33.37	44.20
1-1/2"	30°	0	0.08	0.65	1.88	3.39	5.66	8.36	12.12	16.17	20.44	23.90
	60°	0	0.09	0.92	2.81	4.69	8.89	14.85	21.16	30.73	45.88	59.74
2"	30°	0	0.09	1.18	3.79	7.53	12.26	17.83	26.44	36.45	48.09	55.92
	60°	0	0.11	1.51	5.80	10.39	20.60	33.98	48.75	69.04	104.23	136.50
2-1/2"	30°	0	0.10	1.15	4.42	7.91	13.39	20.05	30.43	41.92	69.75	77.20
	60°	0	0.14	1.46	5.91	11.90	23.24	37.92	59.31	83.29	113.65	162.50
3"	30°	0	0.13	1.20	4.15	9.49	15.96	26.78	38.91	53.31	69.77	85.91
	60°	0	0.16	2.89	6.70	15.82	29.36	46.32	73.60	106.74	149.88	193.20
4"	30°	0	0.18	1.75	7.84	18.59	35.21	58.60	87.89	124.41	158.53	197.10
	60°	0	0.27	2.20	12.44	33.67	62.98	106.26	160.49	233.96	329.50	437.29
6"	30°	0	0.30	3.12	13.97	33.15	62.70	104.37	156.53	221.56	282.33	349.70
	60°	0	0.27	5.41	22.15	59.97	112.16	189.24	285.82	416.68	586.83	800.80
8"	30°	0	0.50	5.32	23.77	56.35	106.70	177.62	266.39	377.06	480.47	595.20
	60°	0	0.80	6.66	23.81	102.06	190.87	322.06	486.41	709.11	998.69	1325.40

V200F / V300F ESR

V-Port 3-pc ball valve with spring return pneumatic actuator & positioner

(Threaded NPT (N), & Socket Weld (S) end connections) TFM Seats

Actuators are sized for 150 psi pressure differential



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	C	D	E	F	G	H	I	Actuator	Wt. (lbs.)	Model No.
80 psig Minimum Actuator Air Supply = 8S												
1/2"	2.84	6.77	11.78	3.26	4.54	4.09	3.50	1.46	.59	ES25	15.3	C* ①F ②E8S ③④
3/4"	3.35	8.03	12.41	3.78	4.66	4.09	3.50	1.70	.79	ES40	17.2	D* ①F ②E8S ③④
1"	3.62	9.80	13.27	4.19	5.05	4.09	3.50	1.93	.98	ES65	20.9	E* ①F ②E8S ③④
1-1/2"	4.84	10.51	14.34	4.60	5.60	4.09	3.50	2.12	1.50	ES100	27.6	G* ①F ②E8S ③④
2"	5.59	14.17	15.67	5.39	5.95	4.09	3.50	2.52	2.00	ES200	41.6	H* ①F ②E8S ③④
3"	7.95	15.24	17.94	7.12	6.72	4.09	3.50	3.41	3.00	ES350	79.3	J* ①F ②E8S ③④
4"	9.06	18.78	21.49	8.52	8.35	4.48	3.50	4.08	4.02	ES600	131.3	K* ①F ②E8S ③④
60 psig Minimum Actuator Air Supply = 6S												
1/2"	2.84	8.03	12.29	3.78	4.54	4.09	3.50	1.70	.59	ES40	16.9	C* ①F ②E6S ③④
3/4"	3.35	8.03	12.41	3.78	4.66	4.09	3.50	1.70	.79	ES40	17.2	D* ①F ②E6S ③④
1"	3.62	9.80	13.27	4.19	5.05	4.09	3.50	1.93	.98	ES65	20.9	E* ①F ②E6S ③④
1-1/2"	4.84	10.51	14.34	4.60	5.60	4.09	3.50	2.12	1.50	ES100	27.6	G* ①F ②E6S ③④
2"	5.59	14.17	15.67	5.39	5.95	4.09	3.50	2.52	2.00	ES200	41.6	H* ①F ②E6S ③④
3"	7.95	15.24	17.94	7.12	6.72	4.09	3.50	3.41	3.00	ES350	79.3	J* ①F ②E6S ③④
4"	9.06	20.35	23.03	9.51	8.35	4.48	3.50	4.54	4.02	ES950	155.6	K* ①F ②E6S ③④

Note: Dimensions "C" & "E" include a 3" high mounting bracket sizes 1/2"- 3" and a 4" high mounting bracket on 4" valve

*V200 = Carbon Stl Body, 316SS Trim

*V300 = 316SS Body & Trim

① End Connections: N=NPT, S=Socket Weld

② Ball Drilling: (3) 30°, (6) 60°

③ C=Fail Close, O=Fail Open

④ Positioner: P5, E5, E5XP

V200 & V300 VALVE SPECIFICATIONS

- V-Port Carbon Stl (V200) or 316SS body (V300) w/316 ss Trim
- 1500 WOG / 150 WSP
- Secondary Metal Seat
- Secondary Media Containment
- Swing Out Body Design
- Seats: TFM
- Max Temp: TFM Seats: 475°F

PNEUMATIC ACTUATOR FEATURES

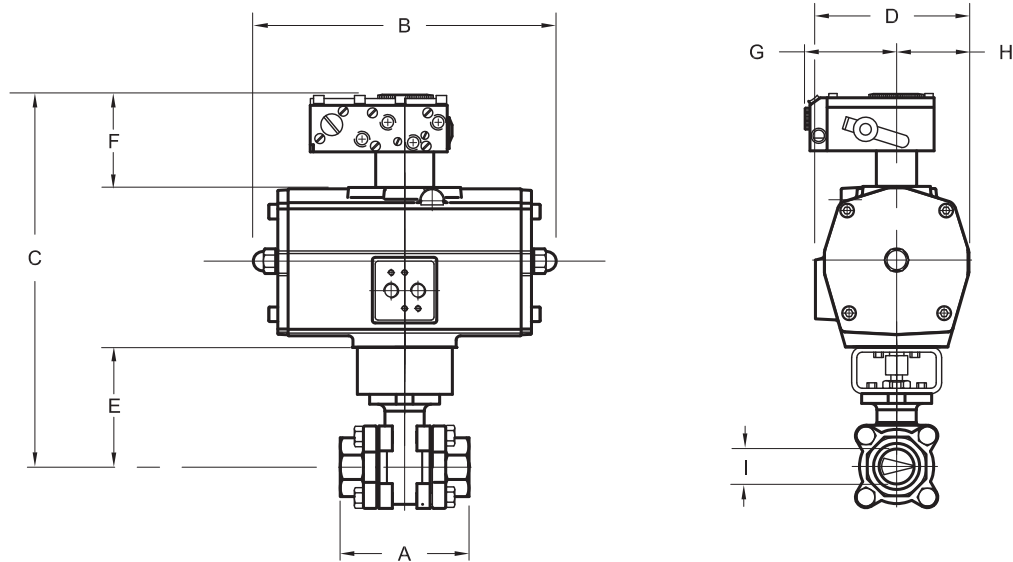
- E Series spring return rack and pinion pneumatic actuator
- Corrosion resistant coating
- NAMUR solenoid mounting pad, ISO 5211 mounting standard
- Visual position indicator
- High duty cycle, permanent lubrication
- Temperature range: -4°F to 175°F

V200F / V300F EDA

V-Port 3-pc ball valve with double acting pneumatic actuator & positioner

(Threaded NPT (N), & Socket Weld (S) end connections) TFM Seats

Actuators are sized for 150 psi pressure differential



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	C	D	E	F	G	H	I	Actuator	Cv	Wt.(lbs.)	Model No.
80 psig Minimum Actuator Air Supply = 8D													
1/2"	2.84	6.26	7.24	3.26	4.54	4.09	3.50	1.46	.59	ED25	18	14.5	C* ①F ②E8D ③
3/4"	3.35	6.26	11.90	3.26	4.66	4.09	3.50	1.46	.79	ED25	42	14.8	D* ①F ②E8D ③
1"	3.62	6.26	12.29	3.26	5.05	4.09	3.50	1.46	.98	ED25	74	15.9	E* ①F ②E8D ③
1-1/2"	4.84	7.09	13.35	3.78	5.60	4.09	3.50	1.70	1.50	ED40	210	21.5	G* ①F ②E8D ③
2"	5.59	7.09	13.70	3.78	5.95	4.09	3.50	1.70	2.00	ED40	380	25.5	H* ①F ②E8D ③
3"	7.95	8.70	15.46	4.60	6.72	4.09	3.50	2.12	3.00	ED100	890	48.8	J* ①F ②E8D ③
4"	9.06	12.01	19.57	7.12	8.35	4.09	3.50	3.41	4.02	ED350	1620	93.4	K* ①F ②E8D ③
60 psig Minimum Actuator Air Supply = 6D													
1/2"	2.84	6.26	7.24	3.26	4.54	4.09	3.50	1.46	.59	ED25	18	14.5	C* ①F ②E6D ③
3/4"	3.35	6.26	11.90	3.26	4.66	4.09	3.50	1.46	.79	ED25	42	14.8	D* ①F ②E6D ③
1"	3.62	6.26	12.29	3.26	5.05	4.09	3.50	1.46	.98	ED25	74	15.9	E* ①F ②E6D ③
1-1/2"	4.84	7.09	13.35	3.78	5.60	4.09	3.50	1.70	1.50	ED40	210	21.5	G* ①F ②E6D ③
2"	5.59	7.83	14.17	4.19	5.95	4.09	3.50	1.93	2.00	ED65	380	26.8	H* ①F ②E6D ③
3"	7.95	11.14	16.44	5.39	6.72	4.09	3.50	2.52	3.00	ED200	890	54.8	J* ①F ②E6D ③
4"	9.06	12.01	19.57	7.12	6.35	4.09	3.50	3.41	4.02	ED350	1620	93.4	K* ①F ②E6D ③

Note: Dimensions "C" & "E" include a 3" high mounting bracket sizes 1/2"- 3" and a 4" high mounting bracket on 4" valve

*V200 = Carbon Stl Body, 316SS Trim

*V300 = 316SS Body & Trim

① End Connections: N=NPT, S=Socket Weld

② Ball Drilling: (3) 30°, (6) 60°

③ Positioner: P5, E5, E5XP

V200 & V300 VALVE SPECIFICATIONS

- V-Port Carbon Stl (V200) or 316SS body (V300) w/316 ss Trim
- 1500 WOG / 150 WSP
- Secondary Metal Seat
- Secondary Media Containment
- Swing Out Body Design
- Seats: TFM
- Max Temp: TFM Seats: 475°F

PNEUMATIC ACTUATOR FEATURES

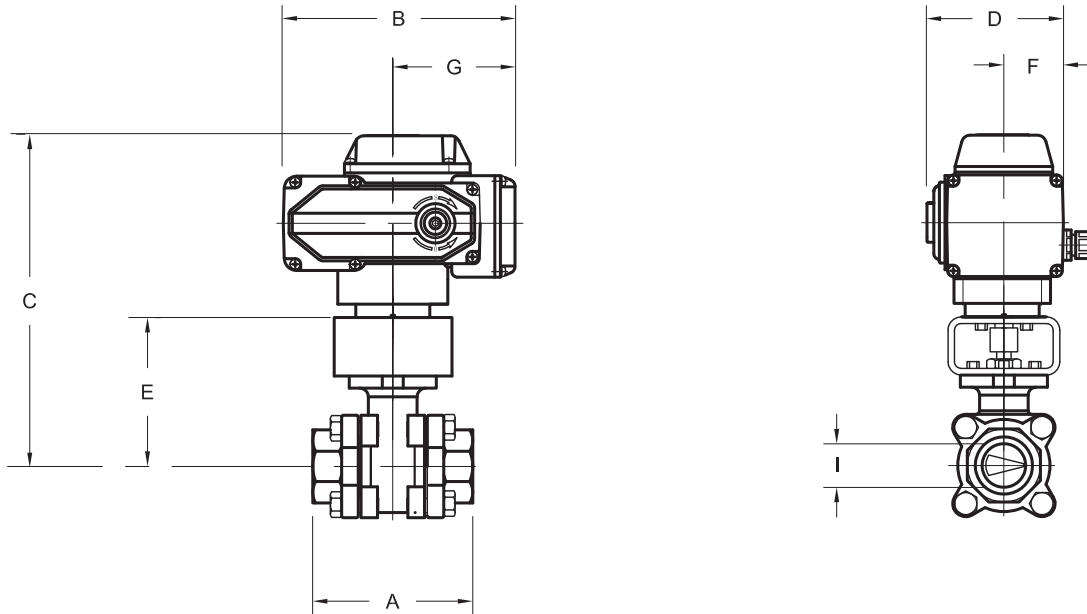
- E Series double acting rack and pinion pneumatic actuator
- Corrosion resistant coating
- NAMUR solenoid mounting pad, ISO 5211 mounting standard
- Visual position indicator
- High duty cycle, permanent lubrication
- Temperature range: -4°F to 175°F

V200F / V300F K4A-P420

V-Port 3-pc ball valve with electric actuator for throttling service

(Threaded NPT (N), & Socket Weld (S) end connections) TFM Seats

Actuators are sized for 150 psi pressure differential



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	C	D	E	F	G	I	Actuator	Wt.(lbs.)	Model No.
1/2"	2.84	6.24	9.25	4.51	4.54	2.00	2.99	.59	Nucom Z	7.1	C* ①F②K4A-P420
3/4"	3.35	6.24	9.37	4.51	4.66	2.00	2.99	.79	Nucom Z	12.4	D* ①F②K4A-P420
1"	3.62	6.24	9.76	4.51	5.05	2.00	2.99	.98	Nucom Z	13.5	E* ①F②K4A-P420
1-1/2"	4.84	8.17	12.04	4.82	5.60	1.62	4.33	1.50	Nucom-10NS/30	23.0	G* ①F②K4A-P420
2"	5.59	8.17	12.39	4.82	5.95	1.62	4.33	2.00	Nucom-10NS/30	36.0	H* ①F②K4A-P420
3"	7.95	10.10	14.00	6.16	6.72	2.46	5.25	3.00	Nucom-10NM/30	55.5	J* ①F②K4A-P420
4"	9.06	15.00	17.56	9.53	8.35	4.13	7.85	4.02	Nucom-10NL/15	110.0	K* ①F②K4A-P420

Note: Dimensions "C" & "E" include a 3" high mounting bracket sizes 1/2" - 3" and a 4" high mounting bracket on 4" valve

*V200 = Carbon Stl Body, 316SS Trim

*V300 = 316SS Body & Trim

① End Connections: N=NPT, S=Socket Weld

② Ball Drilling: (3) 30°, (6) 60°

V200 & V300 VALVE SPECIFICATIONS

- V-Port Carbon Stl (V200) or 316SS body (V300) w/316 ss Trim
- 1500 WOG / 150 WSP
- Secondary Metal Seat
- Secondary Media Containment
- Swing Out Body Design
- Seats: TFM
- Max Temp: TFM Seats: 475°F

ELECTRIC ACTUATORS FEATURES

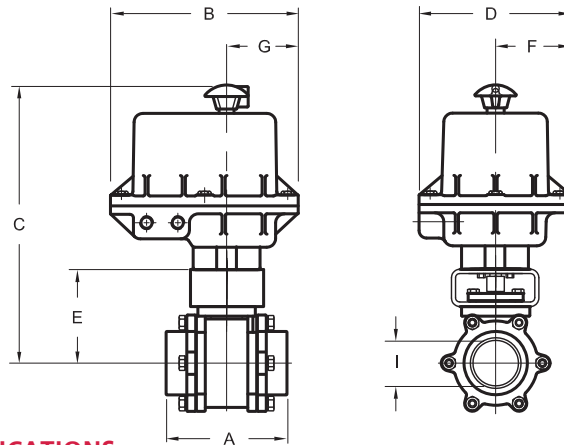
- K Series electric actuator
- Actuator speed: 25 sec
- Most voltages available
- Quarter turn: 0-90° rotation
- NEMA 4/4X certified by UL labs
- ISO 5211 mounting standard
- Visual position indicator
- Self-locking drive train
- Mounts in any direction
- 1/2" NPT conduit connection
- CSA-NRTL /C and CE certified
- Temperature range: 0°F to 160°F

V200F / V300F B7A-420 3 - 4

V-Port 3-pc ball valve with electric actuator, NEMA 7, 120vac

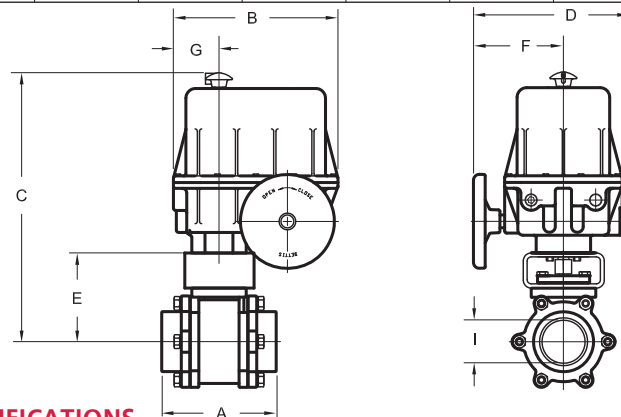
(Threaded NPT (N), & Socket Weld (S) end connections) TFM Seats

Actuators are sized for 150 psi pressure differential



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	C	D	E	F	G	I	Actuator	Wt.(lbs.)	Model No.
3"	7.95	8.25	16.16	6.25	6.72	3.12	3.75	3.00	EM500-30	55.5	J * F ① ② B7A-420



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	C	D	E	F	G	I	Actuator	Wt.(lbs.)	Model No.
4"	9.06	14.00	23.73	13.31	8.35	7.62	3.88	4.00	EM810-18	226.0	K * F ① ② B7A-420

Note: Dimensions "C" & "E" include a 3" high mounting bracket for 3" valve and a 4" high bracket for the 4" valve

*V200 = Carbon Stl Body, 316SS Trim

*V300 = 316SS Body & Trim

① End Connections: N=NPT, S=Socket Weld

② Ball Drilling: (3) 30°, (6) 60°

V200 & V300 VALVE SPECIFICATIONS

- V-Port Carbon Stl (V200) or 316SS body (V300) w/316 ss Trim
- 1500 WOG / 150 WSP
- Secondary Metal Seat
- Secondary Media Containment
- Swing Out Body Design
- Seats: 50/50
- Max Temp: 50/50 seats: 525°F

ELECTRIC ACTUATORS FEATURES

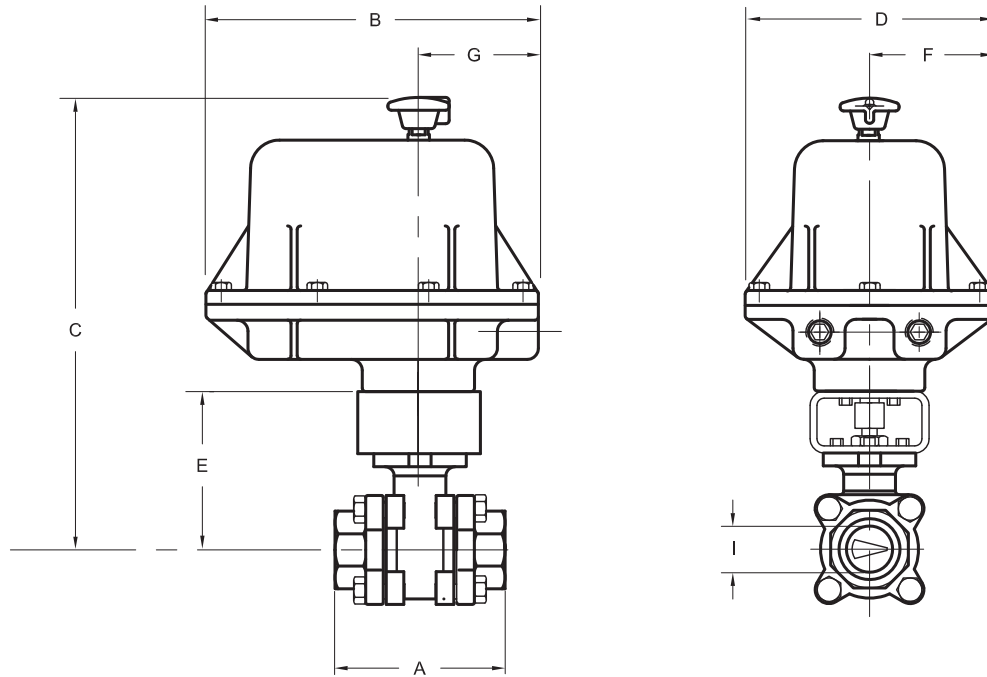
- B7 Series electric actuator
- NEMA 4, 4x, 7, & 9; CSA approved
- Weatherproof
- Class I Groups C and D, Div. 1
- Class II Groups E, F, & G
- (2) 1/2" NPT conduit entries
- Manual override
- Visual position Indicator
- CSA certified
- Temperature range: 0°F to 175°F

V200F / V300F B7A-420 .5 - 2

V-Port 3-pc ball valve with electric actuator, NEMA 7, 120vac

(Threaded NPT (N), & Socket Weld (S) end connections) TFM Seats

Actuators are sized for 150 psi pressure differential



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	C	D	E	F	G	I	Actuator	Wt.(lbs.)	Model No.
1/2"	2.84	8.25	12.04	6.25	4.54	3.12	3.75	.59	EM310-30	25.1	C * F ① ② B7A-420
3/4"	3.35	8.25	12.16	6.25	4.66	3.12	3.75	.79	EM310-30	25.4	D * F ① ② B7A-420
1"	3.62	8.25	12.55	6.25	5.05	3.12	3.75	.98	EM310-30	26.5	E * F ① ② B7A-420
1-1/2"	4.84	8.25	13.10	6.25	5.60	3.12	3.75	1.50	EM310-30	31.0	G * F ① ② B7A-420
2"	5.59	8.25	13.45	6.25	5.95	3.12	3.75	2.00	EM310-30	35.0	H * F ① ② B7A-420

Note: Dimensions "C" & "E" include a 3" high mounting bracket

*V200 = Carbon Stl Body, 316SS Trim

*V300 = 316SS Body & Trim

① End Connections: N=NPT, S=Socket Weld

② Ball Drilling: (3) 30°, (6) 60°

V200 & V300 VALVE SPECIFICATIONS

- V-Port Carbon Stl (V200) or 316SS body (V300) w/316 ss Trim
- 1500 WOG / 150 WSP
- Secondary Metal Seat
- Secondary Media Containment
- Swing Out Body Design
- Seats: TFM
- Max Temp: TFM Seats: 475°F

ELECTRIC ACTUATORS FEATURES

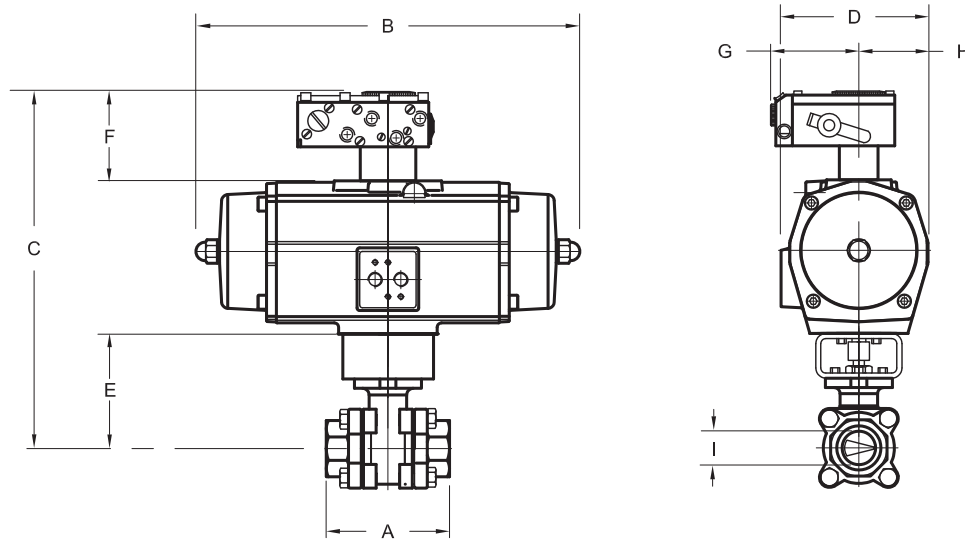
- B7 Series electric actuator
- NEMA 4, 4x, 7, & 9; CSA approved
- Weatherproof
- Class I Groups C and D, Div. 1
- Class II Groups E, F, & G
- (2) 1/2" NPT conduit entries
- Manual override
- Visual position Indicator
- CSA certified
- 1/2" NPT conduit connection
- CSA-NRTL/C and CE certified
- Temperature range: 0°F to 175°F

V200S / V300S ESR

V-Port 3-pc ball valve with double acting pneumatic actuator & positioner

(Threaded NPT (N), & Socket Weld (S) end connections) 50/50 Seats

Actuators are sized for 150 psi pressure differential



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	C	D	E	F	G	H	I	Actuator	Cv	Wt.(lbs.)	Model No.
80 psig Minimum Actuator Air Supply = 8S													
1/2"	2.84	8.03	12.31	3.78	4.54	4.09	3.50	1.46	.59	ES40	18	16.9	C* ①S ②E8S ③④
3/4"	3.35	9.80	12.88	4.19	4.66	4.09	3.50	1.93	.79	ES65	42	19.8	D* ①S ②E8S ③④
1"	3.62	9.80	13.27	4.19	5.05	4.09	3.50	1.93	.98	ES65	74	20.9	E* ①S ②E8S ③④
1-1/2"	4.84	10.51	14.34	4.60	5.60	4.09	3.50	2.12	1.50	ES100	210	27.6	G* ①S ②E8S ③④
2"	5.59	14.17	15.67	5.39	5.95	4.09	3.50	2.52	2.00	ES200	380	41.6	H* ①S ②E8S ③④
3"	7.95	15.24	17.94	7.12	6.72	4.09	3.50	3.41	3.00	ES350	890	79.3	J* ①S ②E8S ③④
4"	9.06	20.35	23.03	9.51	8.35	4.48	3.50	4.54	4.02	ES950	1620	155.6	K* ①S ②E8S ③④
60 psig Minimum Actuator Air Supply = 6S													
1/2"	2.84	8.03	12.31	3.78	4.54	4.09	3.50	1.70	.59	ES40	18	16.9	C* ①S ②E6S ③④
3/4"	3.35	9.80	12.88	4.19	4.66	4.09	3.50	1.93	.79	ES65	42	19.8	D* ①S ②E6S ③④
1"	3.62	10.51	13.79	4.60	5.05	4.09	3.50	2.12	.98	ES100	74	23.1	E* ①S ②E6S ③④
1-1/2"	4.84	14.17	15.11	5.39	5.60	4.09	3.50	2.52	1.50	ES200	210	37.6	G* ①S ②E6S ③④
2"	5.59	15.24	17.17	7.12	5.95	4.09	3.50	3.41	2.00	ES350	380	58.8	H* ①S ②E6S ③④
3"	7.95	18.78	19.86	8.52	6.72	4.48	3.50	4.08	3.00	ES600	890	102.8	J* ①S ②E6S ③④
4"	9.06	20.35	23.03	9.51	8.35	4.48	3.50	4.54	4.02	ES950	1620	155.6	K* ①S ②E6S ③④

Note: Dimensions "C" & "E" include a 3" high mounting bracket sizes 1/2" - 3" and a 4" high mounting bracket on 4" valve

*V200 = Carbon Stl Body, 316SS Trim

*V300 = 316SS Body & Trim

① End Connections: N=NPT, S=Socket Weld

② Ball Drilling: (3) 30°, (6) 60°

③ C=Fail Close, O=Fail Open

④ Positioner: P5, E5, E5XP

V200 & V300 VALVE SPECIFICATIONS

- V-Port Carbon Stl (V200) or 316SS body (V300) w/316 ss Trim
- 1500 WOG / 150 WSP
- Secondary Metal Seat
- Secondary Media Containment
- Swing Out Body Design
- Seats: 50/50
- Max Temp: 50/50 seats: 525°F

PNEUMATIC ACTUATOR FEATURES

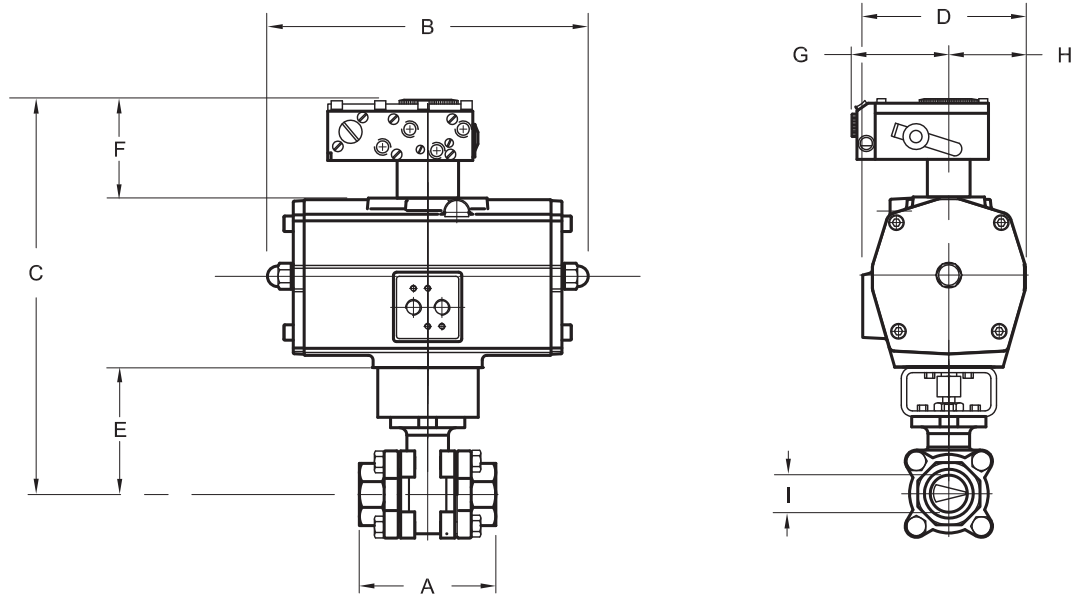
- E Series spring return rack and pinion pneumatic actuator
- Corrosion resistant coating
- NAMUR solenoid mounting pad, ISO 5211 mounting standard
- Visual position indicator
- High duty cycle, permanent lubrication
- Temperature range: -4°F to 175°F

V200S / V300S EDA

V-Port 3-pc ball valve with double acting pneumatic actuator & positioner

(Threaded NPT (N), & Socket Weld (S) end connections) 50/50 Seats

Actuators are sized for 150 psi pressure differential



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	C	D	E	F	G	H	I	Actuator	Cv	Wt. (lbs.)	Model No.
80 psig Minimum Actuator Air Supply = 8D													
1/2"	2.84	6.26	11.78	3.26	4.54	4.09	3.50	1.46	.59	ED25	18	14.5	C* ①S②EBD ③
3/4"	3.35	6.26	11.90	3.26	4.66	4.09	3.50	1.46	.79	ED25	42	14.8	D* ①S②EBD ③
1"	3.62	6.26	12.29	3.26	5.05	4.09	3.50	1.46	.98	ED25	74	15.9	E* ①S②EBD ③
1-1/2"	4.84	7.09	13.35	3.78	5.60	4.09	3.50	1.70	1.50	ED40	210	21.5	G* ①S②EBD ③
2"	5.59	7.83	14.17	4.19	5.95	4.09	3.50	1.93	2.00	ED65	380	26.8	H* ①S②EBD ③
3"	7.95	11.14	16.44	5.39	6.72	4.09	3.50	2.52	3.00	ED200	890	54.8	J* ①S②EBD ③
4"	9.06	12.01	16.57	7.12	8.35	4.09	3.50	3.41	4.02	ED350	1620	93.4	K* ①S②EBD ③
60 psig Minimum Actuator Air Supply = 6D													
1/2"	2.84	6.26	11.78	3.26	4.54	4.09	3.50	1.46	.59	ED25	18	14.5	C* ①S②E6D ③
3/4"	3.35	6.26	11.90	3.26	4.66	4.09	3.50	1.46	.79	ED25	42	14.8	D* ①S②E6D ③
1"	3.62	7.09	12.80	3.78	5.05	4.09	3.50	1.70	.98	ED40	74	17.0	E* ①S②E6D ③
1-1/2"	4.84	7.09	13.82	3.78	5.60	4.09	3.50	1.70	1.50	ED65	210	22.8	G* ①S②E6D ③
2"	5.59	8.70	14.69	4.60	5.95	4.09	3.50	2.12	2.00	ED100	380	28.3	H* ①S②E6D ③
3"	7.95	11.14	16.44	5.39	6.72	4.09	3.50	2.52	3.00	ED200	890	54.8	J* ①S②E6D ③
4"	9.06	12.01	16.57	7.12	8.35	4.09	3.50	3.41	4.02	ED350	1620	93.4	K* ①S②E6D ③

Note: Dimensions "C" & "E" include a 3" high mounting bracket sizes 1/2" - 3" and a 4" high mounting bracket on 4" valve

*V200 = Carbon Stl Body, 316SS Trim

*V300 = 316SS Body & Trim

① End Connections: N=NPT, S=Socket Weld

② Ball Drilling: (3) 30°, (6) 60°

③ Positioner: P5, E5, E5XP

V200 & V300 VALVE SPECIFICATIONS

- V-Port Carbon Stl (V200) or 316SS body (V300) w/316 ss Trim
- 1500 WOG / 150 WSP
- Secondary Metal Seat
- Secondary Media Containment
- Swing Out Body Design
- Seats: 50/50
- Max Temp: 50/50 seats: 525°F

PNEUMATIC ACTUATOR FEATURES

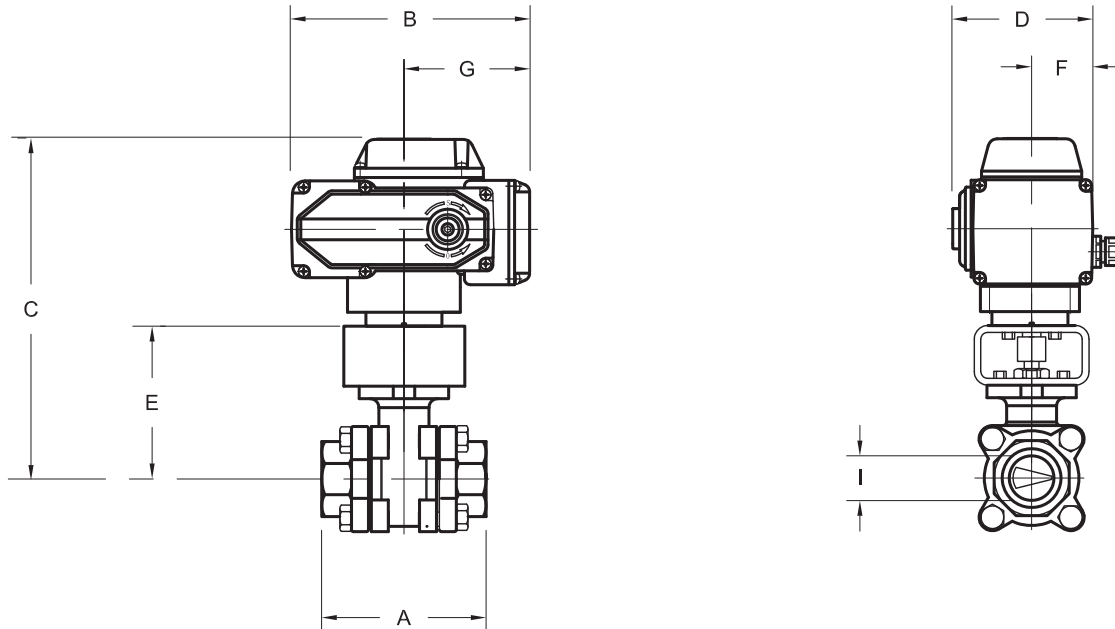
- E Series double acting rack and pinion pneumatic actuator
- Corrosion resistant coating
- NAMUR solenoid mounting pad, ISO 5211 mounting standard
- Visual position indicator
- High duty cycle, permanent lubrication
- Temperature range: -4°F to 175°F

V200S / V300S K4A-P420

V-Port 3-pc ball valve with electric actuator for throttling service

(Threaded NPT (N), & Socket Weld (S) end connections) 50/50 Seats

Actuators are sized for 150 psi pressure differential



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	C	D	E	F	G	I	Actuator	Wt.(lbs.)	Model No.
1/2"	2.84	6.24	9.25	4.51	4.54	2.00	2.99	.59	Nucom Z	7.1	C* ①S②K4A-P420
3/4"	3.35	6.24	9.37	4.51	4.66	2.00	2.99	.79	Nucom Z	12.4	D* ①S②K4A-P420
1"	3.62	6.24	9.76	4.51	5.05	2.00	2.99	.98	Nucom Z	13.5	E* ①S②K4A-P420
1-1/2"	4.84	8.17	12.04	4.82	5.60	1.62	4.33	1.50	Nucom-10NS/30	23.0	G* ①S②K4A-P420
2"	5.59	10.10	12.39	6.16	5.95	2.46	5.25	2.00	Nucom-10NM/30	35.0	H* ①S②K4A-P420
3"	7.95	10.10	14.00	6.16	6.72	2.46	5.25	3.00	Nucom-10NM/30	55.5	J* ①S②K4A-P420
4"	9.06	15.00	17.56	9.53	8.35	4.13	7.85	4.02	Nucom-10NL/15	110.0	K* ①S②K4A-P420

Note: Dimensions "C" & "E" include a 3" high mounting bracket sizes 1/2" - 3" and a 4" high mounting bracket on 4" valve

*V200 = Carbon Stl Body, 316SS Trim

*V300 = 316SS Body & Trim

① End Connections: N=NPT, S=Socket Weld

② Ball Drilling: (3) 30°, (6) 60°

V200 & V300 VALVE SPECIFICATIONS

- V-Port Carbon Stl (V200) or 316SS body (V300) w/316 ss Trim
- 1500 WOG / 150 WSP
- Secondary Metal Seat
- Secondary Media Containment
- Swing Out Body Design
- Seats: 50/50
- Max Temp: 50/50 seats: 525°F

ELECTRIC ACTUATOR FEATURES

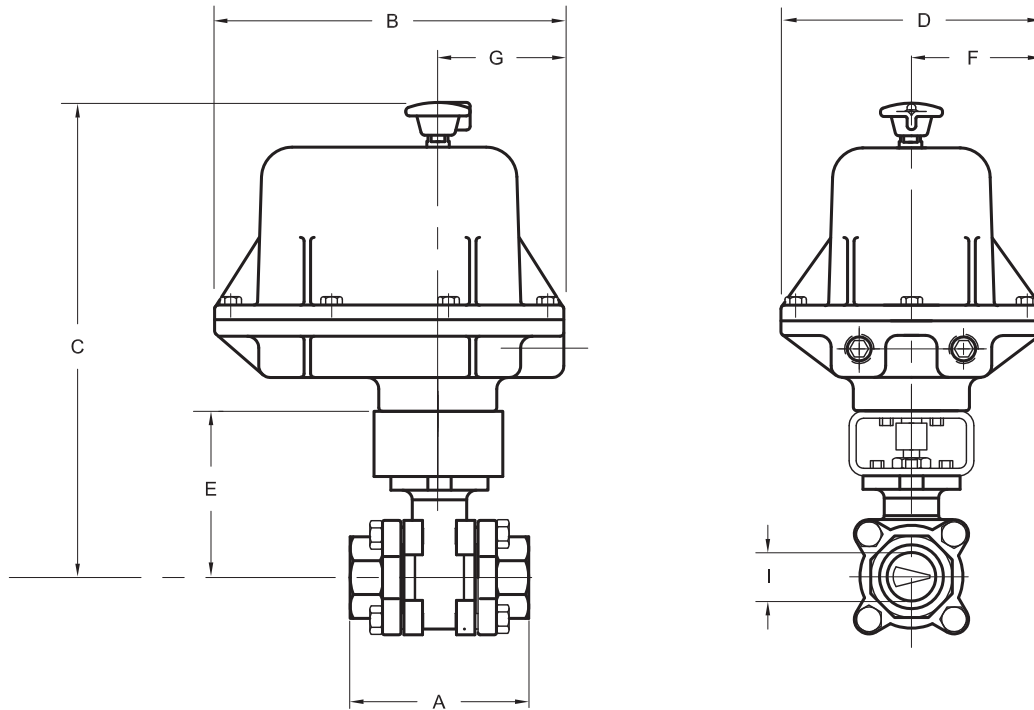
- K Series electric actuator
- Actuator speed: 25 sec.
- Most voltages available
- Quarter turn: 0-90° rotation
- NEMA 4/4X certified by UL labs
- ISO 5211 mounting standard
- Visual position indicator
- Self-locking drive train
- Mounts in any direction
- 1/2" NPT conduit connection
- CSA-NRTL /C and CE certified
- Temperature range: 0°F to 160°F

V200S / V300S B7A-420 .5 - 1.5

V-Port 3-pc ball valve with electric actuator, NEMA 7, 120vac

(Threaded NPT (N), & Socket Weld (S) end connections) 50/50 Seats

Actuators are sized for 150 psi pressure differential



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	C	D	E	F	G	I	Actuator	Wt.(lbs.)	Model No.
1/2"	2.84	8.25	12.04	6.25	4.54	3.12	3.75	.59	EM310-30	25.1	C * F ① ② B7A-420
3/4"	3.35	8.25	12.16	6.25	4.66	3.12	3.75	.79	EM310-30	25.4	D * F ① ② B7A-420
1"	3.62	8.25	12.55	6.25	5.05	3.12	3.75	.98	EM310-30	26.5	E * F ① ② B7A-420
1-1/2"	4.84	8.25	13.10	6.25	5.60	3.12	3.75	1.50	EM310-30	31.0	G * F ① ② B7A-420

Note: Dimensions "C" & "E" include a 3" high mounting bracket

*V200 = Carbon Stl Body, 316SS Trim

*V300 = 316SS Body & Trim

① End Connections: N=NPT, S=Socket Weld

② Ball Drilling: (3) 30°, (6) 60°

V200 & V300 VALVE SPECIFICATIONS

- V-Port Carbon Stl (V200) or 316SS body (V300) w/316 ss Trim
- 1500 WOG / 150 WSP
- Secondary Metal Seat
- Secondary Media Containment
- Swing Out Body Design
- Seats: 50/50
- Max Temp: 50/50 seats: 525°F

ELECTRIC ACTUATOR FEATURES

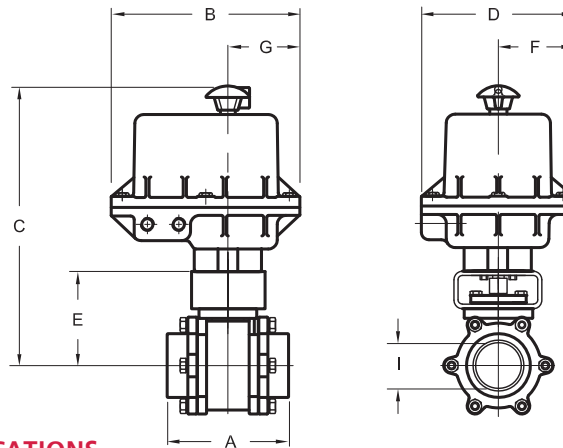
- B7 Series electric actuator
- NEMA 4, 4x, 7, & 9; CSA approved
- Weatherproof
- Quarter turn: 0-90° rotation
- Class I Groups C and D, Div. 1
- Class II Groups E, F, & G
- (2) 1/2" NPT conduit entries
- Manual override
- Visual position Indicator
- CSA certified
- Temperature range: 0°F to 175°F

V200S / V300S B7A-420 2 - 4

V-Port 3-pc ball valve with electric actuator, NEMA 7, 120vac

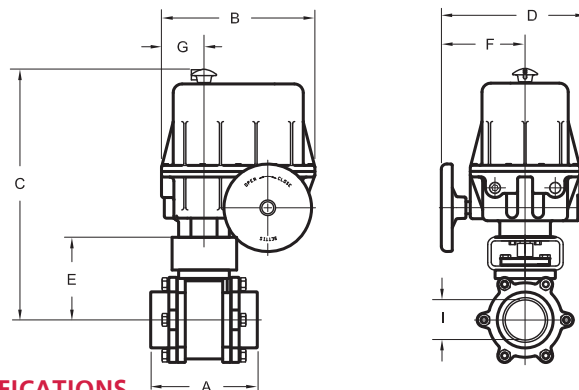
(Threaded NPT (N), & Socket Weld (S) end connections) 50/50 Seats

Actuators are sized for 150 psi pressure differential



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	C	D	E	F	G	I	Actuator	Wt.(lbs.)	Model No.
2"	5.59	8.25	16.16	6.25	5.95	3.12	3.75	2.00	EM500-15	55.5	H * F ① ② B7A-420
3"	7.95	8.25	16.16	6.25	6.72	3.12	3.75	3.00	EM500-30	55.5	J * F ① ② B7A-420



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	C	D	E	F	G	I	Actuator	Wt.(lbs.)	Model No.
4"	9.06	14.00	23.72	13.31	8.35	7.62	3.88	4.00	EM810-18	226.0	K * F ① ② B7A-420

Note: Dimensions "C" & "E" include a 3" high mounting bracket for 3" valve and a 4" high bracket for the 4" valve

*V200 = Carbon Stl Body, 316SS Trim

*V300 = 316SS Body & Trim

① End Connections: N=NPT, S=Socket Weld

② Ball Drilling: (3) 30°, (6) 60°

V200 & V300 VALVE SPECIFICATIONS

- V-Port Carbon Stl (V200) or 316SS body (V300) w/316 ss Trim
- 1500 WOG / 150 WSP
- Secondary Metal Seat
- Secondary Media Containment
- Swing Out Body Design
- Seats: 50/50
- Max Temp: 50/50 seats: 525°F

ELECTRIC ACTUATORS FEATURES

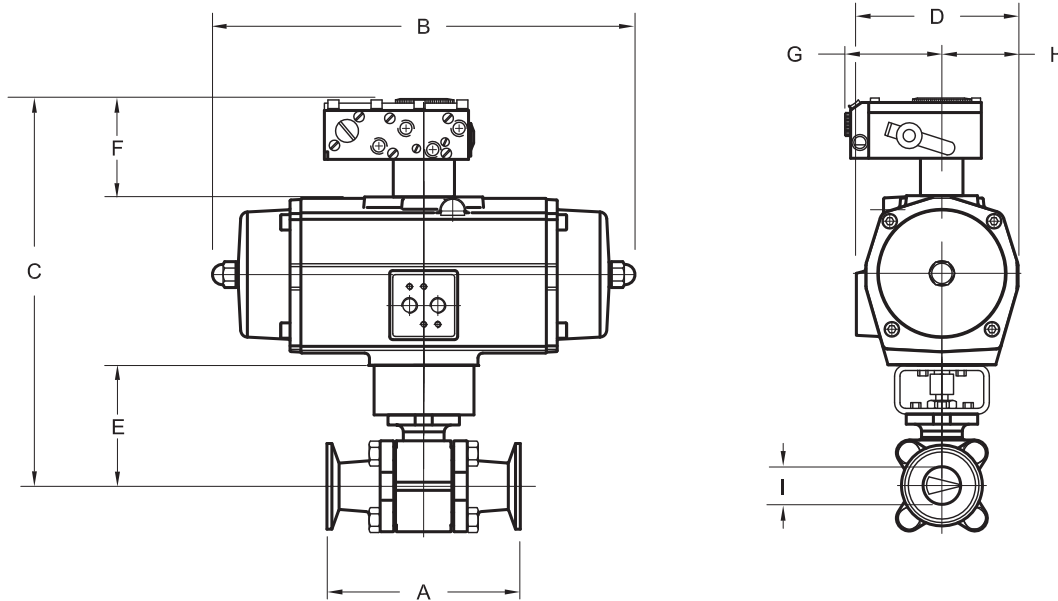
- B7 Series electric actuator
- NEMA 4, 4x, 7, & 9; CSA approved
- Weatherproof
- Class I Groups C and D, Div. 1
- Class II Groups E, F, & G
- (2) 1/2" NPT conduit entries
- Manual override
- Visual position Indicator
- CSA certified
- Temperature range: 0°F to 175°F

V350T_ESR

3-pc ball valve with spring return pneumatic actuator & positioner

T-Clamp end connections w/PTFE Seats

Actuators are sized for 150 psi pressure differential



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	C	D	E	F	G	H	I	Actuator	Wt.(lbs.)	Model No.
80 psig Minimum Actuator Air Supply = 8S												
1/2"	3.60	8.03	12.29	3.78	4.54	4.09	3.50	1.70	.37	ES40	16.8	CV350T ①E8S ② ③
3/4"	4.11	8.03	12.29	3.78	4.54	4.09	3.50	1.70	.62	ES40	17.8	DV350T ①E8S ② ③
1"	4.48	9.80	12.85	4.19	4.66	4.09	3.50	1.93	.87	ES65	21.4	EV350T ①E8S ② ③
1-1/2"	5.06	10.51	13.99	4.60	5.25	4.09	3.50	2.12	1.37	ES100	26.6	GV350T ①E8S ② ③
2"	5.75	14.17	15.67	5.39	5.95	4.09	3.50	2.52	1.87	ES200	39.6	HV350T ①E8S ② ③
3"	7.40	15.24	17.94	7.12	6.72	4.09	3.50	3.41	2.87	ES350	79.0	JV350T ①E8S ② ③
4"	8.76	20.35	23.03	9.51	8.35	4.48	3.50	4.54	3.83	ES950	154.6	KV350T ①E8S ② ③
60 psig Minimum Actuator Air Supply = 6S												
1/2"	3.60	8.03	12.29	3.78	4.54	4.09	3.50	1.70	.37	ES40	16.8	CV350T ①E6S ② ③
3/4"	4.11	9.80	12.76	4.19	4.54	4.09	3.50	1.93	.62	ES65	20.4	DV350T ①E6S ② ③
1"	4.48	10.51	13.40	4.60	4.66	4.09	3.50	2.12	.87	ES100	23.6	EV350T ①E6S ② ③
1-1/2"	5.06	12.20	14.85	5.14	5.25	4.09	3.50	2.38	1.37	ES150	31.7	GV350T ①E6S ② ③
2"	5.75	15.24	17.17	7.12	5.95	4.09	3.50	3.41	1.87	ES350	56.8	HV350T ①E6S ② ③
3"	7.40	18.78	19.86	8.52	6.72	4.48	3.50	4.08	2.87	ES600	102.3	JV350T ①E6S ② ③
4"	8.76	25.08	24.52	10.81	8.35	4.48	3.50	5.21	3.83	ES1600	214.6	KV350T ①E6S ② ③

Note: Dimensions "C" & "E" include a 3" high mounting bracket sizes 1/2" - 3" and a 4" high mounting bracket on 4" valve

- ① Ball Drilling: (3) 30°, (6) 60°
- ② C=Fail Close, O=Fail Open
- ③ Positioner: P5, E5, E5XP

V350T VALVE SPECIFICATIONS

- Standard Finish Ra30-35 min
- True Bore Port Design - eliminates pooling traces of media
- Full Body Cavity Fillers
- C.I.P. Valves: Clean in Place
- Swing-Out Body Design
- Seats: PTFE
- Max Temp: PTFE seats: 425°F

PNEUMATIC ACTUATOR FEATURES

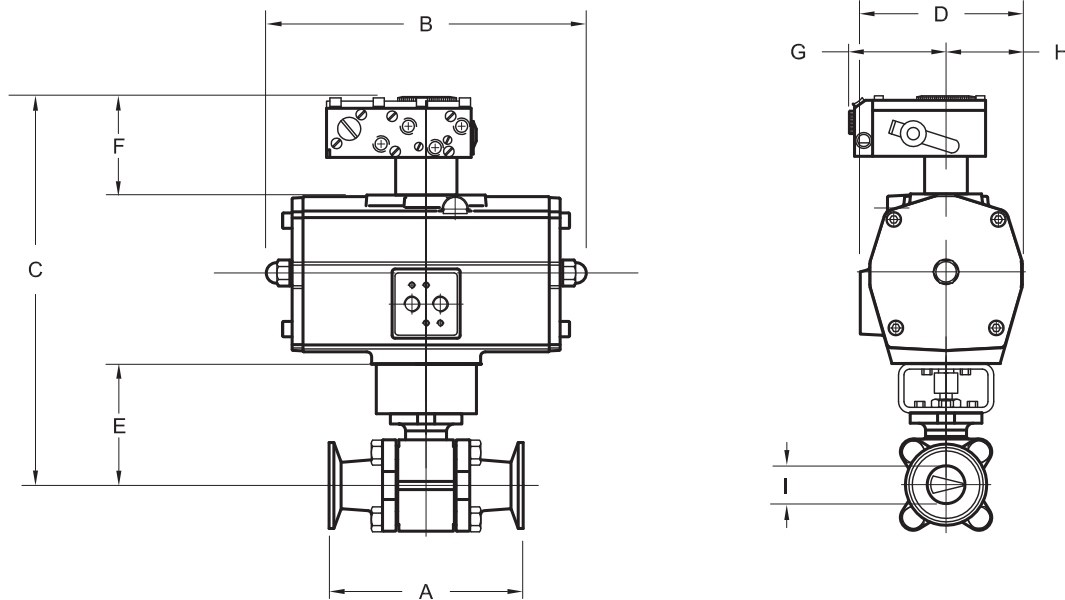
- E Series spring return rack and pinion pneumatic actuator
- Corrosion resistant coating
- NAMUR solenoid mounting pad, ISO 5211 mounting standard
- Visual position indicator
- High duty cycle, permanent lubrication
- Temperature range: -4°F to 175°F

V350T_EDA

3-pc ball valve with spring return pneumatic actuator & positioner

T-Clamp end connections w/PTFE Seats

Actuators are sized for 150 psi pressure differential



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	C	D	E	F	G	H	I	Actuator	Wt.(lbs.)	Model No.
80 psig Minimum Actuator Air Supply = 8D												
1/2"	3.60	8.03	12.29	3.78	4.54	4.09	3.50	1.46	.37	ED25	14.4	CV350T ①E8D ②
3/4"	4.11	8.03	12.29	3.78	4.54	4.09	3.50	1.46	.62	ED25	15.4	DV350T ①E8D ②
1"	4.48	9.80	12.85	4.19	4.66	4.09	3.50	1.46	.87	ED25	16.4	EV350T ①E8D ②
1-1/2"	5.06	10.51	13.99	4.60	5.25	4.09	3.50	1.70	1.37	ED40	20.5	GV350T ①E8D ②
2"	5.75	14.17	15.67	5.39	5.95	4.09	3.50	1.93	1.87	ED65	24.8	HV350T ①E8D ②
3"	7.40	15.24	17.94	7.12	6.72	4.09	3.50	2.38	2.87	ED150	52.0	JV350T ①E8D ②
4"	8.76	20.35	23.03	9.51	8.35	4.09	3.50	3.41	3.83	ED350	92.4	KV350T ①E8D ②
60 psig Minimum Actuator Air Supply = 6D												
1/2"	3.60	8.03	12.29	3.78	4.54	4.09	3.50	1.46	.37	ED25	14.4	CV350T ①E6D ②
3/4"	4.11	9.80	12.76	4.19	4.54	4.09	3.50	1.46	.62	ED25	15.4	DV350T ①E6D ②
1"	4.48	10.51	13.40	4.60	4.66	4.09	3.50	1.70	.87	ED40	17.5	EV350T ①E6D ②
1-1/2"	5.06	12.20	14.85	5.14	5.25	4.09	3.50	1.93	1.37	ED65	21.8	GV350T ①E6D ②
2"	5.75	15.24	17.17	7.12	5.95	4.09	3.50	2.12	1.87	ED100	26.3	HV350T ①E6D ②
3"	7.40	18.78	19.86	8.52	6.72	4.09	3.50	2.52	2.87	ED200	54.3	JV350T ①E6D ②
4"	8.76	25.08	24.52	10.81	8.35	4.48	3.50	4.08	3.83	ED600	112.3	KV350T ①E6D ②

Note: Dimensions "C" & "E" include a 3" high mounting bracket sizes 1/2" - 3" and a 4" high mounting bracket on 4" valve

① Ball Drilling: (3) 30°, (6) 60°
 ② Positioner: P5, E5, E5XP

V350T VALVE SPECIFICATIONS

- Standard Finish Ra30-35 min
- True Bore Port Design - eliminates pooling traces of media
- Full Body Cavity Fillers
- C.I.P. Valves: Clean in Place
- Swing-Out Body Design
- Seats: PTFE
- Max Temp: PTFE seats: 425°F

PNEUMATIC ACTUATOR FEATURES

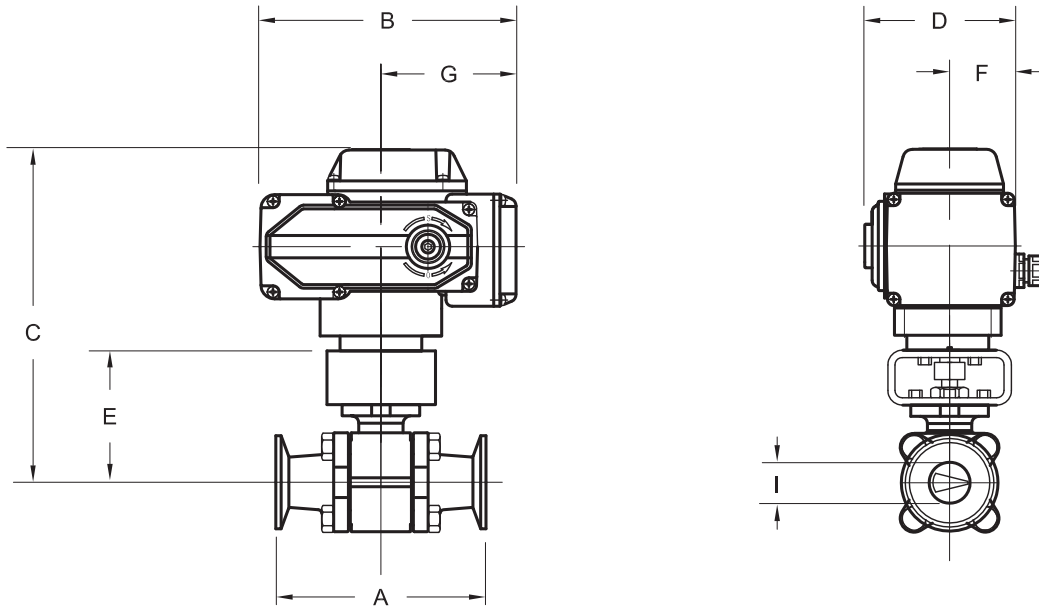
- E Series double acting rack and pinion pneumatic actuator
- Corrosion resistant coating
- NAMUR solenoid mounting pad, ISO 5211 mounting standard
- Visual position indicator
- High duty cycle, permanent lubrication
- Temperature range: -4°F to 175°F

V350T_K4A P420 .5 - 2

3-pc ball valve with electric actuator for throttling service

T-Clamp end connections w/PTFE Seats

Actuators are sized for 150 psi pressure differential



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	C	D	E	F	G	I	Actuator	Wt.(lbs.)	Model No.
1/2"	3.60	6.24	9.25	4.51	4.54	2.00	2.99	.37	Nucom Z	7.0	CV350T ① K4A-P420
3/4"	4.11	6.24	9.25	4.51	4.54	2.00	2.99	.62	Nucom Z	7.0	DV350T ① K4A-P420
1"	4.48	8.17	11.10	4.82	4.66	1.62	4.33	.87	Nucom-10NS/30	14.0	EV350T ① K4A-P420
1-1/2"	5.06	8.17	11.69	4.82	5.25	1.62	4.33	1.37	Nucom-10NS/30	17.0	GV350T ① K4A-P420
2"	5.75	10.10	13.23	6.16	5.95	2.46	5.25	1.87	Nucom-10NM/30	28.0	HV350T ① K4A-P420
3"	7.40	10.10	14.00	6.16	6.72	2.46	5.25	2.87	Nucom-10NM/30	50.0	JV350T ① K4A-P420
4"	8.76	15.00	17.56	9.53	8.35	4.13	7.85	3.83	Nucom-10NL/15	99.0	KV350T ① K4A-P420

Note: Dimensions "C" & "E" include a 3" high mounting bracket sizes 1/2" - 3" and a 4" high mounting bracket on 4" valve

① Ball Drilling: (3) 30°, (6) 60°

V350T VALVE SPECIFICATIONS

- Standard Finish Ra30-35 min
- True Bore Port Design - eliminates pooling traces of media
- Full Body Cavity Fillers
- C.I.P. Valves: Clean in Place
- Swing Out Body Design
- Seats: PTFE
- Max Temp: PTFE seats: 425°F

ELECTRIC ACTUATORS FEATURES

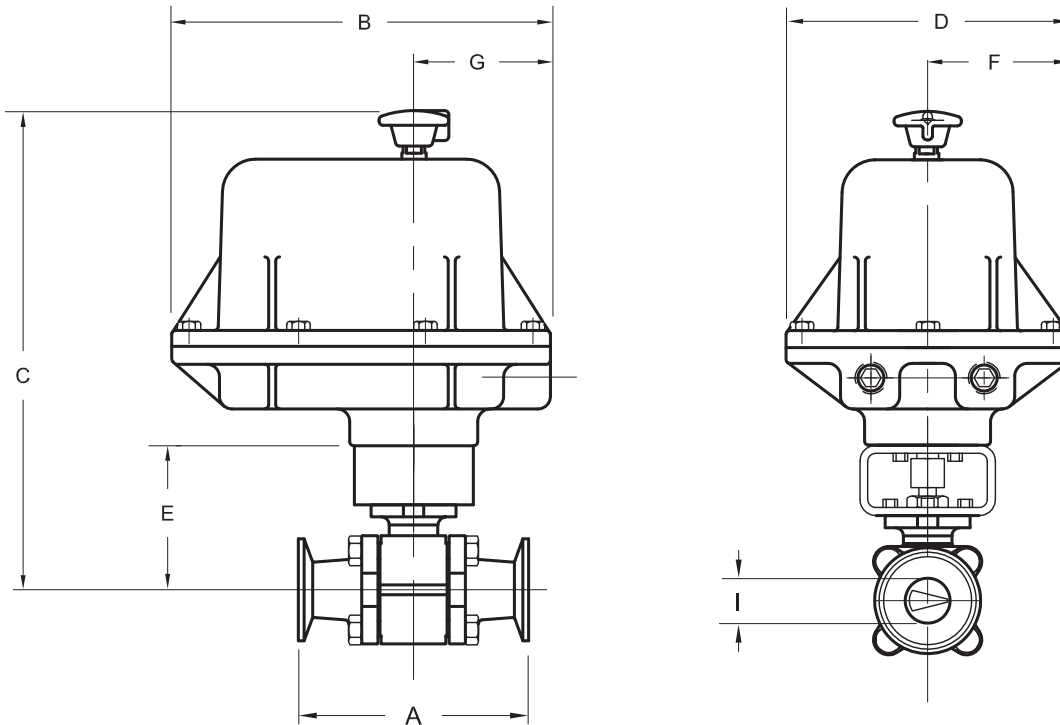
- K Series electric actuator
- Most voltages available
- Quarter turn: 0-90° rotation
- NEMA 4/4X certified by UL labs
- ISO 5211 mounting standard
- Visual position indicator
- Self-locking drive train
- Mounts in any direction
- 1/2" NPT conduit connection
- CSA-NRTL /C and CE certified

V350T_B7A-420 .5 - 2

3-pc ball valve with electric actuator, NEMA 7, 120vac

T-Clamp end connections w/PTFE seats

Actuators are sized for 150 psi pressure differential



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	C	D	E	F	G	I	Actuator	Wt.(lbs.)	Model No.
1/2"	3.60	8.25	12.04	6.25	4.54	3.12	3.75	.59	EM310-30	33.0	CV350T ① B7A-420
3/4"	4.11	8.25	12.16	6.25	4.54	3.12	3.75	.79	EM310-30	26.0	DV350T ① B7A-420
1"	4.48	8.25	12.55	6.25	4.66	3.12	3.75	.98	EM310-30	27.0	EV350T ① B7A-420
1-1/2"	5.06	8.25	13.10	6.25	5.25	3.12	3.75	1.50	EM310-30	30.0	GV350T ① B7A-420
2"	5.75	8.25	13.45	6.25	5.95	3.12	3.75	2.00	EM310-30	33.0	HV350T ① B7A-420

Note: Dimensions "C" & "E" include a 3" high mounting bracket

① Ball Drilling: (3) 30°, (6) 60°

V350T VALVE SPECIFICATIONS

- Standard Finish Ra30-35 min
- True Bore Port Design - eliminates pooling traces of media
- Full Body Cavity Fillers
- C.I.P. Valves: Clean in Place
- Swing Out Body Design
- Seats: PTFE
- Max Temp: PTFE seats: 425°F

ELECTRIC ACTUATOR FEATURES

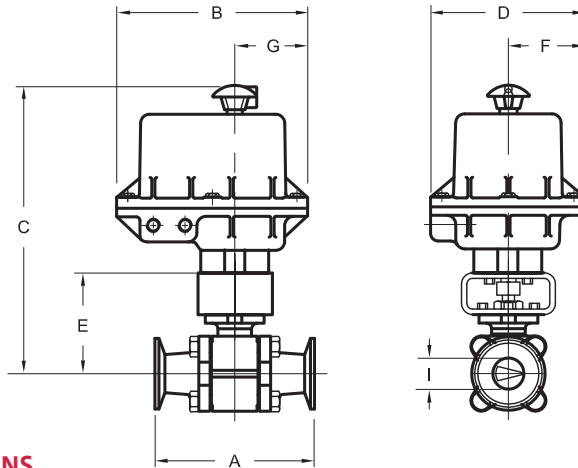
- B7 Series electric actuator
- NEMA 4, 4x, 7, & 9; CSA approved
- Weatherproof
- Quarter turn: 0-90° rotation
- Class I Groups C and D, Div. 1
- Class II Groups E, F, & G
- (2) 1/2" NPT conduit entries
- Manual override
- Visual position Indicator
- CSA certified
- Temperature range: 0°F to 175°F

V350T B7A-420 3 - 4

3-pc ball valve with electric actuator, NEMA 7, 120vac

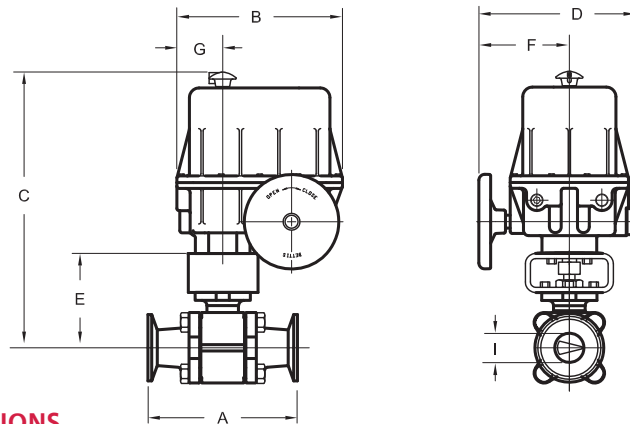
T-Clamp end connections w/PTFE Seats

Actuators are sized for 150 psi pressure differential



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	C	D	E	F	G	I	Actuator	Wt.(lbs.)	Model No.
3"	7.40	8.25	16.16	6.25	6.72	3.12	3.75	2.87	EM500-30	55.5	JV350T ① B7A-420



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	C	D	E	F	G	I	Actuator	Wt.(lbs.)	Model No.
4"	8.76	14.00	23.73	13.31	8.35	7.62	3.88	3.83	EM810-18	225.0	KV350T ① B7A-420

Note: Dimensions "C" & "E" include a 3" high mounting bracket for 3" valve and a 4" high bracket for the 4" valve

① Ball Drilling: (3) 30°, (6) 60°

V350T VALVE SPECIFICATIONS

- Standard Finish: Ra30-35 min
- True Bore Port Design - eliminates pooling traces of media
- Full Body cavity fillers
- C.I.P. Valves: Clean in Place
- Swing Out Body Design
- Seats: PTFE
- Max Temp: PTFE: 425°F

ELECTRIC ACTUATORS FEATURES

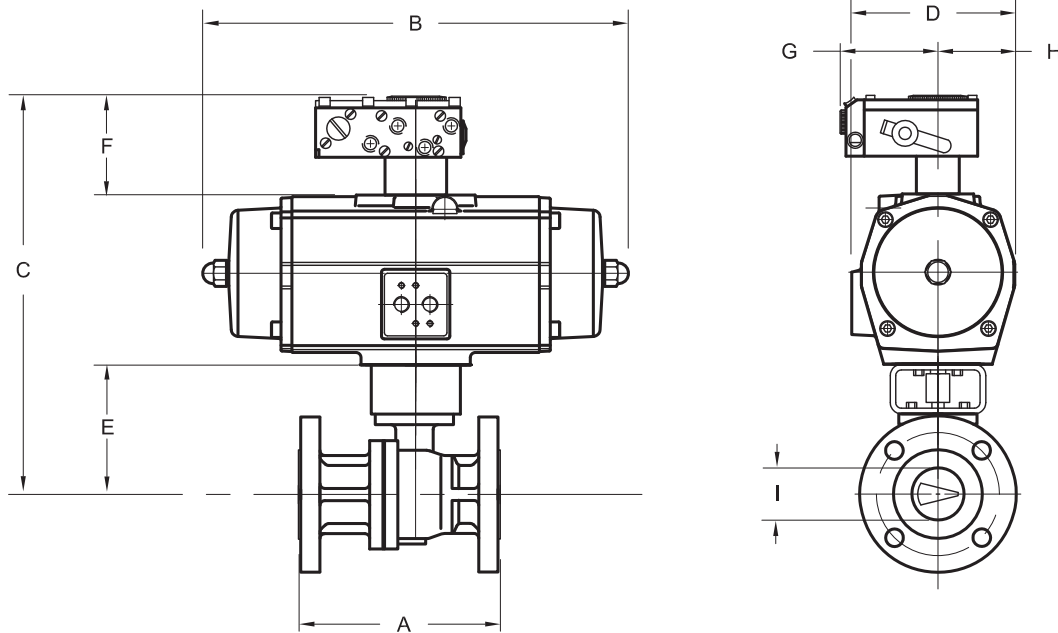
- B7 Series electric actuator
- NEMA 4, 4x, 7, & 9; CSA approved
- Weatherproof
- Class I Groups C and D, Div. 1
- Class II Groups E, F, & G
- (2) 1/2" NPT conduit entries
- Manual override
- Visual position Indicator
- CSA certified
- Temperature range: 0°F to 175°F

V150F_F ESR .5 - 2

V-Port ball valve with spring return pneumatic actuator & positioner

150# Flanged 2-pc body TFM Seats

Actuators are sized for 150 psi pressure differential



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	C	D	E	F	G	H	I	Actuator	Wt.(lbs.)	Model No.
80 psig Minimum Actuator Air Supply = 8S												
1/2"	4.25	8.03	12.29	3.78	4.54	4.09	3.50	1.70	.59	ES40	18.8	CV150F * F ①EBS ② ③
3/4"	4.62	8.03	12.45	3.78	4.70	4.09	3.50	1.70	.79	ES40	19.8	DV150F * F ①EBS ② ③
1"	5.00	8.03	12.81	3.78	5.06	4.09	3.50	1.93	.98	ES40	22.3	EV150F * F ①EBS ② ③
1-1/2"	6.50	10.51	14.39	4.60	5.65	4.09	3.50	2.12	1.50	ES100	34.1	GV150F * F ①EBS ② ③
2"	7.00	14.17	15.62	5.39	5.90	4.09	3.50	2.52	1.97	ES200	50.6	HV150F * F ①EBS ② ③
60 psig Minimum Actuator Air Supply = 6S												
1/2"	4.25	8.03	12.29	3.78	4.54	4.09	3.50	1.70	.59	ES40	18.8	CV150F * F ①E6S ② ③
3/4"	4.62	9.80	12.92	4.19	4.70	4.09	3.50	1.93	.79	ES65	22.4	DV150F * F ①E6S ② ③
1"	5.00	9.80	13.28	4.19	5.06	4.09	3.50	1.93	.98	ES65	24.9	EV150F * F ①E6S ② ③
1-1/2"	6.50	14.17	15.37	5.39	5.65	4.09	3.50	2.52	1.50	ES200	44.1	GV150F * F ①E6S ② ③
2"	7.00	14.17	15.62	5.39	5.90	4.09	3.50	2.52	1.97	ES200	50.6	HV150F * F ①E6S ② ③

Note: Dimensions "C" & "E" include a 3" high mounting bracket

*S = 316SS Body & Trim

① Ball Drilling: (3) 30°, (6) 60°

② C=Fail Close, O=Fail Open

③ Positioner: P5, E5, E5XP

V150 VALVE SPECIFICATIONS

- V150F Class 150
- Standard Steam Working Pressure: 150SWP, optional 300PSIG
- Protected Seat Design
- Fire Safe Designed to API607-5
- Spiral Wound Body Gasket w/Secondary metal to metal seat
- Carbon Steel or Stainless Steel Body
- Seats: TFM
- Max Temp: TFM seats: 475°F

PNEUMATIC ACTUATOR FEATURES

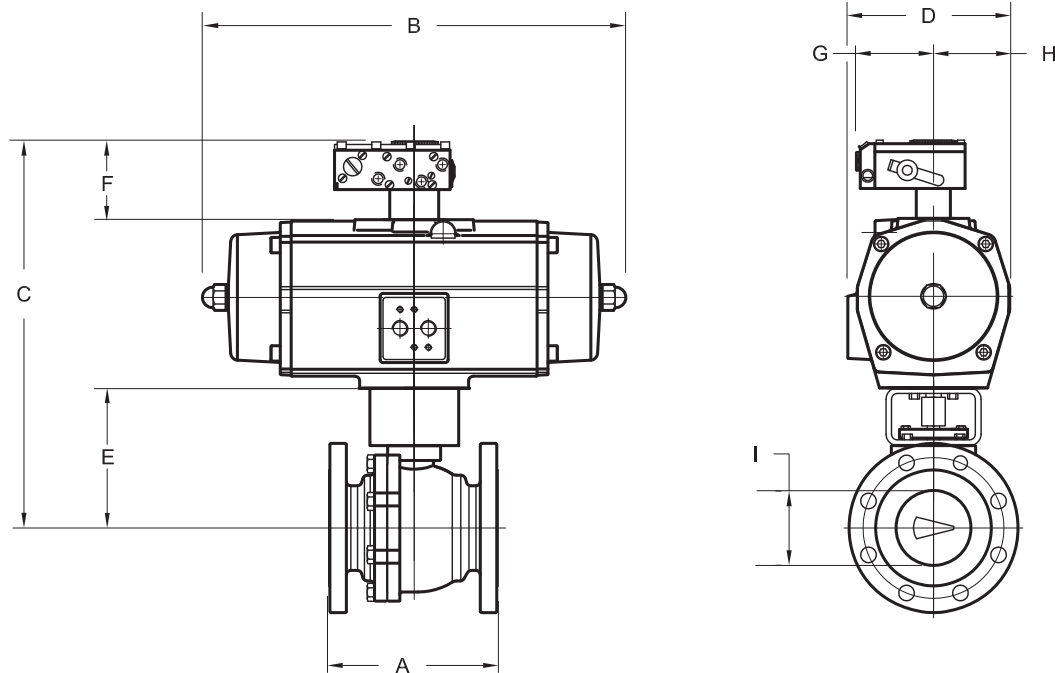
- E Series spring return rack and pinion pneumatic actuator
- Corrosion resistant coating
- NAMUR solenoid mounting pad, ISO 5211 mounting standard
- Visual position indicator
- High duty cycle, permanent lubrication
- Temperature range: -4°F to 175°F

V150F_F ESR 3 - 8

V-Port ball valve with spring return pneumatic actuator & positioner

150# Flanged 2-pc body TFM Seats

Actuators are sized for 150 psi pressure differential



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	C	D	E	F	G	H	I	Actuator	Wt.(lbs.)	Model No.
80 psig Minimum Actuator Air Supply = 8S												
3"	8.00	15.24	17.89	7.12	6.67	4.09	3.50	3.41	3.00	ES350	89.3	JV150F * F ①EBS ② ③
4"	9.00	18.78	21.54	8.52	8.40	4.48	3.50	4.08	4.00	ES600	137.3	KV150F * F ①EBS ② ③
6"	15.50	25.08	27.37	10.81	11.20	4.48	3.50	5.21	5.98	ES1600	324.6	MV150F * F ①EBS ② ③
8"	18.00	32.83	31.04	15.35	11.60	4.48	3.50	7.48	7.87	PS4000	567.5	NV150F * F ①EBS ② ③
60 psig Minimum Actuator Air Supply = 6S												
3"	8.00	18.78	19.81	8.52	6.67	4.48	3.50	4.08	3.00	ES600	112.8	JV150F * F ①E6S ② ③
4"	9.00	18.78	21.54	8.52	8.40	4.48	3.50	4.08	4.00	ES600	137.3	KV150F * F ①E6S ② ③
6"	15.50	22.44	29.70	14.17	11.20	4.48	3.50	6.89	5.98	PS2500	373.5	MV150F * F ①E6S ② ③
8"	18.00	32.83	31.04	15.35	11.60	4.48	3.50	7.48	7.87	PS4000	567.5	NV150F * F ①E6S ② ③

Note: Dimensions "C" & "E" include a 3" high mounting bracket on 3" valve and a 4" high mounting bracket on 4" - 8" valves

*C = Carbon Stl Body, 316SS Trim

*S = 316SS Body & Trim

① Ball Drilling: (3) 30°, (6) 60°

② C=Fail Close, O=Fail Open

③ Positioner: P5, E5, E5XP

V150 VALVE SPECIFICATIONS

- V150F Class 150
- Standard Steam Working Pressure: 150SWP, optional 300PSIG
- Protected Seat Design
- Fire Safe Designed to API607-5
- Spiral Wound Body Gasket w/Secondary metal to metal seat
- Carbon Steel or Stainless Steel Body
- Seats: TFM
- Max Temp: TFM seats: 475°F

PNEUMATIC ACTUATOR FEATURES

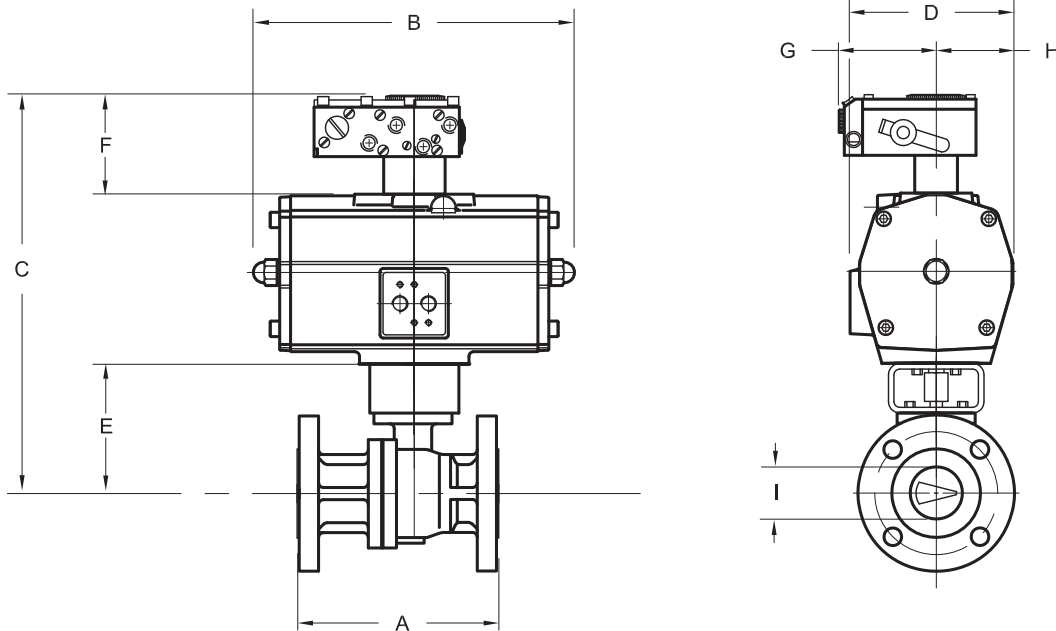
- E Series spring return rack and pinion pneumatic actuator
- Corrosion resistant coating
- NAMUR solenoid mounting pad, ISO 5211 mounting standard
- Visual position indicator
- High duty cycle, permanent lubrication
- Temperature range: -4°F to 175°F

V150F_F EDA .5 - 2

V-Port ball valve with spring return pneumatic actuator & positioner

150# Flanged 2-pc body TFM Seats

Actuators are sized for 150 psi pressure differential



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	C	D	E	F	G	H	I	Actuator	Wt.(lbs.)	Model No.
80 psig Minimum Actuator Air Supply = 8D												
1/2"	4.25	6.26	11.78	3.26	4.54	4.09	3.50	1.46	.59	ED25	16.4	CV150F * F ① E8D ②
3/4"	4.62	6.26	11.94	3.26	4.70	4.09	3.50	1.46	.79	ED25	17.4	DV150F * F ① E8D ②
1"	5.00	6.26	12.30	3.26	5.06	4.09	3.50	1.46	.98	ED25	19.9	EV150F * F ① E8D ②
1-1/2"	6.50	7.09	13.40	3.78	5.65	4.09	3.50	1.70	1.50	ED40	28.0	GV150F * F ① E8D ②
2"	7.00	7.83	14.12	4.19	5.90	4.09	3.50	1.93	1.97	ED65	35.8	HV150F * F ① E8D ②
60 psig Minimum Actuator Air Supply = 6D												
1/2"	4.25	6.26	11.78	3.26	4.54	4.09	3.50	1.46	.59	ED25	16.4	CV150F * F ① E6D ②
3/4"	4.62	6.26	11.94	3.26	4.70	4.09	3.50	1.46	.79	ED25	17.4	DV150F * F ① E6D ②
1"	5.00	6.26	12.30	3.26	5.06	4.09	3.50	1.46	.98	ED25	19.9	EV150F * F ① E6D ②
1-1/2"	6.50	7.83	13.40	4.19	5.65	4.09	3.50	1.93	1.50	ED65	29.3	GV150F * F ① E6D ②
2"	7.00	7.83	14.12	4.19	5.90	4.09	3.50	1.93	1.97	ED65	35.8	HV150F * F ① E6D ②

Note: Dimensions "C" & "E" include a 3" high mounting bracket

*C = Carbon Stl Body, 316SS Trim

*S = 316SS Body & Trim

① Ball Drilling: (3) 30°, (6) 60°

② Positioner: P5, E5, E5XP

V150 VALVE SPECIFICATIONS

- V150F Class 150
- Standard Steam Working Pressure: 150SWP, optional 300PSIG
- Protected Seat Design
- Fire Safe Designed to API607-5
- Spiral Wound Body Gasket w/Secondary metal to metal seat
- Carbon Steel or Stainless Steel Body
- Seats: TFM
- Max Temp: TFM seats: 475°F

PNEUMATIC ACTUATOR FEATURES

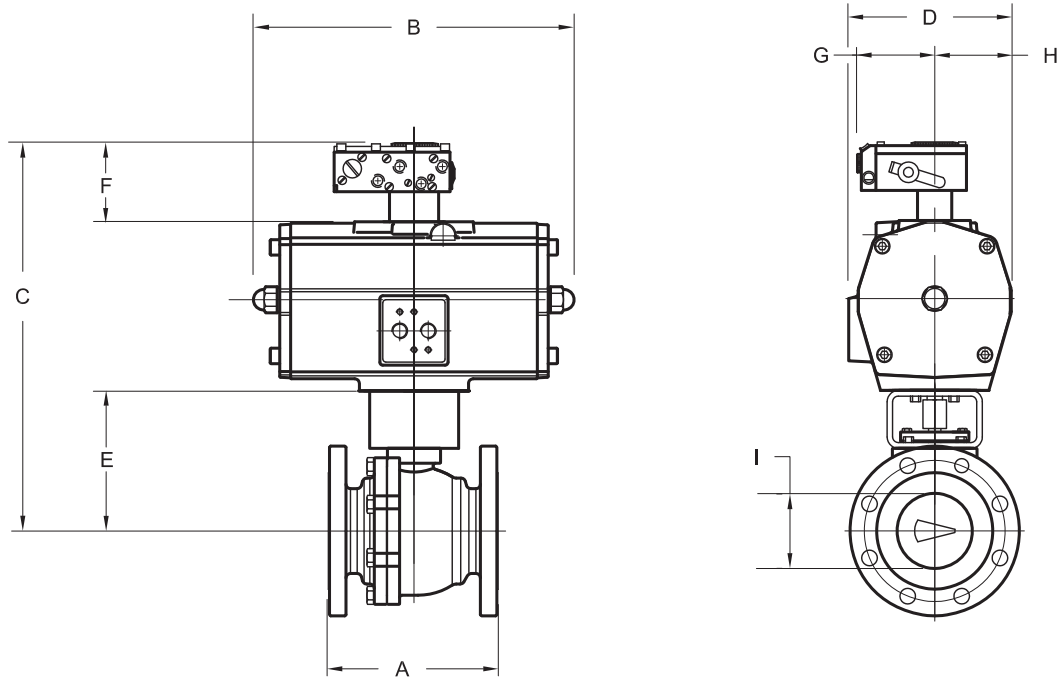
- E Series double acting rack and pinion pneumatic actuator
- Corrosion resistant coating
- NAMUR solenoid mounting pad, ISO 5211 mounting standard
- Visual position indicator
- High duty cycle, permanent lubrication
- Temperature range: -4°F to 175°F

V150F_F EDA 3 - 8

V-Port ball valve with double acting pneumatic actuator & positioner

150# Flanged 2-pc body TFM Seats

Actuators are sized for 150 psi pressure differential



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	C	D	E	F	G	H	I	Actuator	Wt.(lbs.)	Model No.
80 psig Minimum Actuator Air Supply = 8D												
3"	8.00	8.70	15.41	4.60	6.67	4.09	3.50	2.12	3.00	ED100	58.8	JV150F * F ①E8D ②
4"	9.00	11.14	18.12	5.39	8.40	4.09	3.50	2.52	4.00	ED200	89.3	KV150F * F ①E8D ②
6"	15.50	15.24	24.34	8.52	11.20	4.48	3.50	4.08	5.98	ED600	222.3	MV150F * F ①E8D ②
8"	18.00	20.31	27.77	10.81	11.60	4.48	3.50	5.21	7.87	ED1600	370.6	NV150F * F ①E8D ②
60 psig Minimum Actuator Air Supply = 6D												
3"	8.00	11.14	16.39	5.39	6.67	4.09	3.50	2.52	3.00	ED200	64.8	JV150F * F ①E6D ②
4"	9.00	12.01	19.62	7.12	8.40	4.09	3.50	3.41	4.00	ED350	99.4	KV150F * F ①E6D ②
6"	15.50	16.69	25.88	9.51	11.20	4.48	3.50	4.54	5.98	ED950	237.7	MV150F * F ①E6D ②
8"	18.00	20.31	27.77	10.81	11.60	4.48	3.50	5.21	7.87	ED1600	370.6	NV150F * F ①E6D ②

Note: Dimensions "C" & "E" include a 3" high mounting bracket on 3" valve and a 4" high mounting bracket on 4"- 8" valves

*C = Carbon Stl Body, 316SS Trim

*S = 316SS Body & Trim

① Ball Drilling: (3) 30°, (6) 60°

② Positioner: P5, E5, E5XP

V150 VALVE SPECIFICATIONS

- V150F Class 150
- Standard Steam Working Pressure: 150SWP, optional 300PSIG
- Protected Seat Design
- Fire Safe Designed to API607-5
- Spiral Wound Body Gasket w/Secondary metal to metal seat
- Carbon Steel or Stainless Steel Body
- Seats: TFM
- Max Temp: TFM seats: 475°F

PNEUMATIC ACTUATOR FEATURES

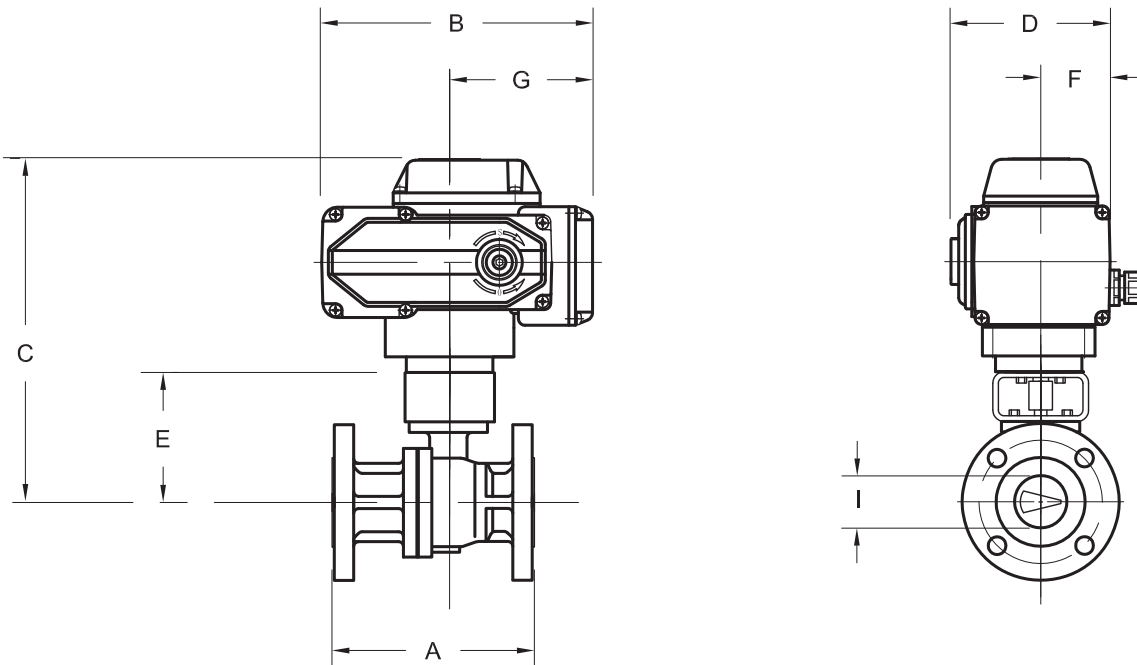
- E Series double acting rack and pinion pneumatic actuator
- Corrosion resistant coating
- NAMUR solenoid mounting pad, ISO 5211 mounting standard
- Visual position indicator
- High duty cycle, permanent lubrication
- Temperature range: -4°F to 175°F

V150F_F K4A-P420 .5 - 2

V-Port ball valve with electric actuator for throttling service

150# Flanged 2-pc body TFM Seats

Actuators are sized for 150 psi pressure differential



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	C	D	E	F	G	I	Actuator	Wt.(lbs.)	Model No.
1/2"	4.25	6.24	9.25	4.51	4.54	2.00	2.99	.59	Nucom Z	14.0	CV150F * F ① K4A-P420
3/4"	4.62	6.24	9.37	4.51	4.66	2.00	2.99	.79	Nucom Z	15.0	DV150F * F ① K4A-P420
1"	5.00	6.24	9.76	4.51	5.05	2.00	2.99	.98	Nucom Z	17.5	EV150F * F ① K4A-P420
1-1/2"	6.50	8.17	12.09	4.82	5.65	2.14	4.33	1.50	Nucom-10NS/30	29.5	GV150F * F ① K4A-P420
2"	7.00	8.17	12.39	4.82	5.90	2.14	4.33	1.97	Nucom-10NS/30	36.0	HV150F * F ① K4A-P420

Note: Dimensions "C" & "E" include a 3" high mounting bracket

*C = Carbon Stl Body, 316SS Trim

*S = 316SS Body & Trim

① Ball Drilling: (3) 30°, (6) 60°

V150 VALVE SPECIFICATIONS

- V150F Class 150
- Standard Steam Working Pressure: 150SWP, optional 300PSIG
- Protected Seat Design
- Fire Safe Designed to API607-5
- Spiral Wound Body Gasket w/Secondary metal to metal seat
- Carbon Steel or Stainless Steel Body
- Seats: TFM
- Max Temp: TFM seats: 475°F

ELECTRIC ACTUATOR FEATURES

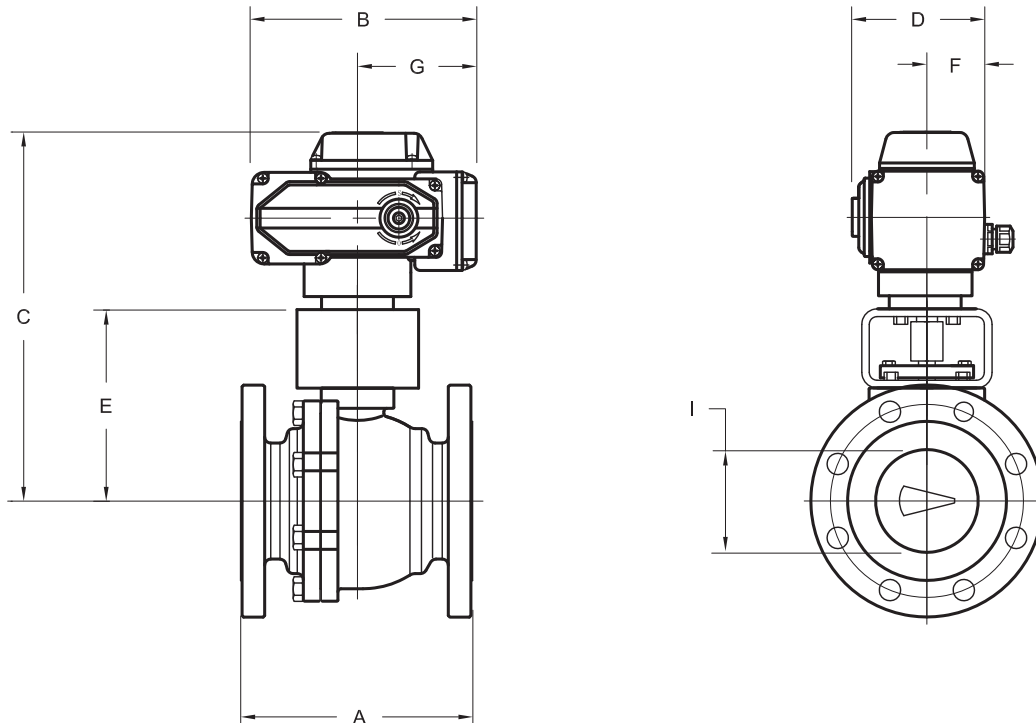
- K Series electric actuator
- Actuator speed: 25 sec.
- Most voltages available
- Quarter turn: 0-90° rotation
- NEMA 4/4X certified by UL labs
- ISO 5211 mounting standard
- Visual position indicator
- Self-locking drive train
- Mounts in any direction
- 1/2" NPT conduit connection
- CSA-NRTL /C and CE certified
- Temperature range: 0°F to 160°F

V150F_F K4A-P420 3 - 8

V-Port ball valve with electric actuator for throttling service

150# Flanged 2-pc body TFM Seats

Actuators are sized for 150 psi pressure differential



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	C	D	E	F	G	I	Actuator	Wt.(lbs.)	Model No.
3"	8.00	10.10	13.95	6.16	6.67	2.46	5.25	3.00	Nucom-10NM/30	65.5	JV150F * F ① K4A-P420
4"	9.00	10.10	15.68	6.16	8.40	2.46	5.25	4.00	Nucom-10NM/30	90.0	KV150F * F ① K4A-P420
6"	15.50	15.00	20.41	9.53	11.20	4.13	7.85	5.98	Nucom-10NL/150	219.0	MV150F * F ① K4A-P420
8"	18.00	15.00	20.81	9.53	11.60	4.13	7.85	7.87	Nucom-10NL/150	316.0	NV150F * F ① K4A-P420

Note: Dimensions "C" & "E" include a 3" high mounting bracket on 3" valve and a 4" high mounting bracket on 4" - 8" valves

*C = Carbon Stl Body, 316SS Trim

*S = 316SS Body & Trim

① Ball Drilling: (3) 30°, (6) 60°

V150 VALVE SPECIFICATIONS

- V150F Class 150
- Standard Steam Working Pressure: 150SWP, optional 300PSIG
- Protected Seat Design
- Fire Safe Designed to API607-5
- Spiral Wound Body Gasket w/Secondary metal to metal seat
- Carbon Steel or Stainless Steel Body
- Seats: TFM
- Max Temp: TFM seats: 475°F

ELECTRIC ACTUATOR FEATURES

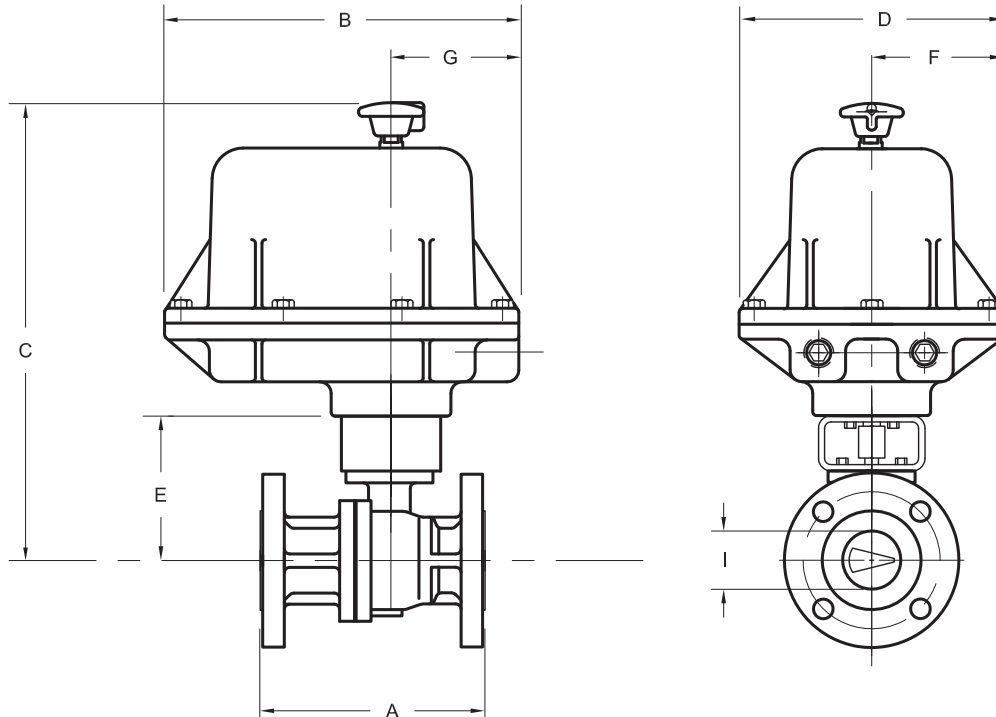
- K Series electric actuator
- Actuator speed: 25 sec.
- Most voltages available
- Quarter turn: 0-90° rotation
- NEMA 4/4X certified by UL labs
- ISO 5211 mounting standard
- Visual position indicator
- Self-locking drive train
- Mounts in any direction
- 1/2" NPT conduit connection
- CSA-NRTL /C and CE certified
- Temperature range: 0°F to 160°F

V150F_F B7A-420 .5 - 2

V-Port ball valve with electric actuator, NEMA 7, 120vac

150# Flanged 2-pc body TFM Seats

Actuators are sized for 150 psi pressure differential



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	C	D	E	F	G	I	Actuator	Wt.(lbs.)	Model No.
1/2"	4.25	8.25	12.04	6.25	4.54	3.12	3.75	.59	EM310-30	27.0	CV150F * F ① B7A-20
3/4"	4.62	8.25	12.16	6.25	4.66	3.12	3.75	.79	EM310-30	28.0	DV150F * F ① B7A-20
1"	5.00	8.25	12.55	6.25	5.05	3.12	3.75	.98	EM310-30	30.5	EV150F * F ① B7A-20
1-1/2"	6.50	8.25	13.10	6.25	5.65	3.12	3.75	1.50	EM310-30	37.5	GV150F * F ① B7A-20
2"	7.00	8.25	13.40	6.25	5.90	3.12	3.75	1.97	EM310-30	44.0	HV150F * F ① B7A-20

Note: Dimensions "C" & "E" include a 3" high mounting bracket

*C = Carbon Stl Body, 316SS Trim

*S = 316SS Body & Trim

① Ball Drilling: (3) 30°, (6) 60°

V150 VALVE SPECIFICATIONS

- V150F Class 150
- Standard Steam Working Pressure: 150SWP, optional 300PSIG
- Protected Seat Design
- Fire Safe Designed to API607-5
- Spiral Wound Body Gasket w/Secondary metal to metal seat
- Carbon Steel or Stainless Steel Body
- Seats: TFM
- Max Temp: TFM seats: 475°F

ELECTRIC ACTUATOR FEATURES

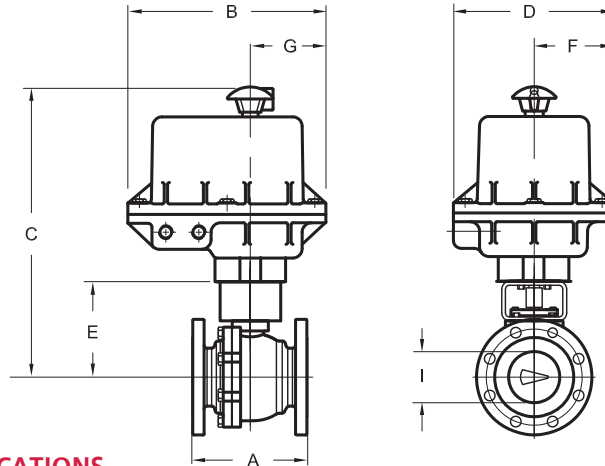
- B7 Series electric actuator
- NEMA 4, 4x, 7, & 9; CSA approved
- Weatherproof
- Class I Groups C and D, Div. 1
- Class II Groups E, F, & G
- (2) 1/2" NPT conduit entries
- Manual override
- Visual position Indicator
- CSA certified
- Temperature range: 0°F to 175°F

V150F_F B7A-420 3 - 8

V-Port ball valve with electric actuator, NEMA 7, 120vac

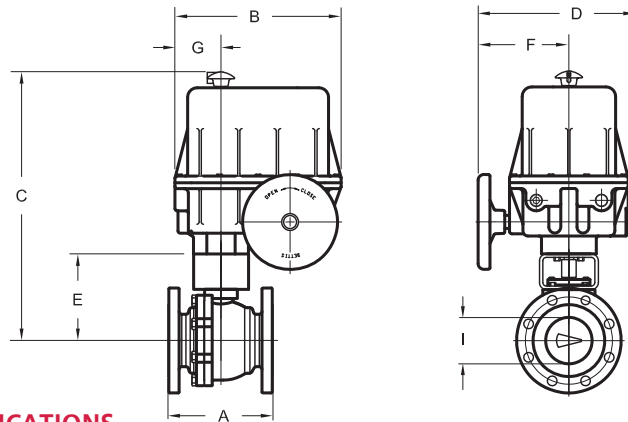
150# Flanged 2-pc body TFM seats

Actuators are sized for 150 psi pressure differential



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	C	D	E	F	G	I	Actuator	Wt.(lbs.)	Model No.
3"	8.00	8.25	16.11	6.25	6.67	3.12	3.75	3.00	EM500-30	65.5	JV150F * F ①② B7A-420



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	C	D	E	F	G	I	Actuator	Wt.(lbs.)	Model No.
4"	9.00	14.00	23.73	13.31	8.40	7.62	3.88	4.00	EM810-30	297.5	KV150F * F ①② B7A-420
6"	15.50	14.00	23.73	13.31	11.20	7.62	3.88	5.98	EM820-30	335.0	MV150F * F ①② B7A-420
8"	18.00	14.00	23.73	13.31	11.60	7.62	3.88	7.87	EM840-48	432.0	NV150F * F ①② B7A-420

Note: Dimensions "C" & "E" include a 3" high mounting bracket on 3" valve and a 4" high mounting bracket on 4" - 8" valves

*C = Carbon Stl Body, 316SS Trim

*S = 316SS Body & Trim

① Ball Drilling: (3) 30°, (6) 60°

V150 VALVE SPECIFICATIONS

- V150F Class 150
- Standard Steam Working Pressure: 150SWP, optional 300PSIG
- Protected Seat Design
- Fire Safe Designed to API607-5
- Spiral Wound Body Gasket w/Secondary metal to metal seat
- Carbon Steel or Stainless Steel Body
- Seats: TFM
- Max Temp: TFM seats: 475°F

ELECTRIC ACTUATOR FEATURES

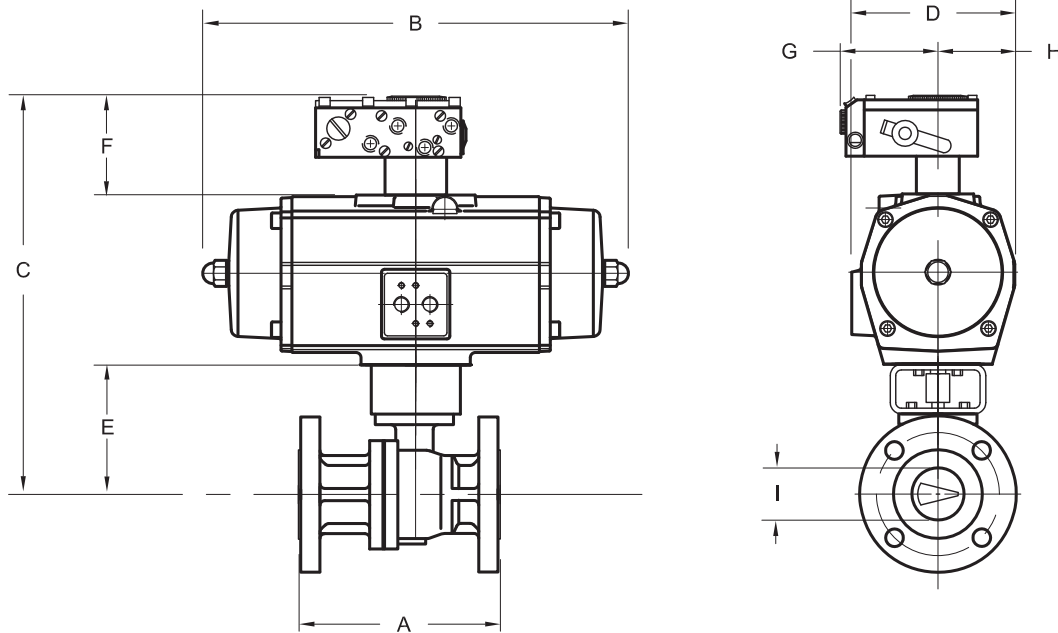
- B7 Series electric actuator
- NEMA 4, 4x, 7, & 9; CSA approved
- Weatherproof
- Class I Groups C and D, Div. 1
- Class II Groups E, F, & G
- (2) 1/2" NPT conduit entries
- Manual override
- Visual position Indicator
- CSA certified
- Temperature range: 0°F to 175°F

V150F_S ESR .5 - 2

V-Port ball valve with spring return pneumatic actuator & positioner

150# Flanged 2-pc body 50/50 Seats

Actuators are sized for 150 psi pressure differential



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	C	D	E	F	G	H	I	Actuator	Wt.(lbs.)	Model No.
80 psig Minimum Actuator Air Supply = 8S												
1/2"	4.25	8.03	12.29	3.78	4.54	4.09	3.50	1.70	.59	ES40	18.8	CV150F * S ①E8S ② ③
3/4"	4.62	8.03	12.45	3.78	4.70	4.09	3.50	1.70	.79	ES40	19.8	DV150F * S ①E8S ② ③
1"	5.00	9.80	13.28	4.19	5.06	4.09	3.50	1.93	.98	ES65	24.9	EV150F * S ①E8S ② ③
1-1/2"	6.50	14.17	15.37	5.39	5.65	4.09	3.50	2.52	1.50	ES200	44.1	GV150F * S ①E8S ② ③
2"	7.00	14.17	15.62	5.39	5.90	4.09	3.50	2.52	1.97	ES200	50.6	HV150F * S ①E8S ② ③
60 psig Minimum Actuator Air Supply = 6S												
1/2"	4.25	6.77	12.76	3.26	4.54	4.09	3.50	1.93	.59	ES65	21.4	CV150F * S ①E6S ② ③
3/4"	4.62	8.03	12.92	3.78	4.70	4.09	3.50	1.93	.79	ES65	22.4	DV150F * S ①E6S ② ③
1"	5.00	9.80	13.28	4.19	5.06	4.09	3.50	1.93	.98	ES65	24.9	EV150F * S ①E6S ② ③
1-1/2"	6.50	10.51	15.37	4.60	5.65	4.09	3.50	2.52	1.50	ES200	44.1	GV150F * S ①E6S ② ③
2"	7.00	14.17	17.12	5.39	5.90	4.09	3.50	3.41	1.97	ES350	67.8	HV150F * S ①E6S ② ③

Note: Dimensions "C" & "E" include a 3" high mounting bracket

*C = Carbon Stl Body, 316SS Trim

*S = 316SS Body & Trim

① Ball Drilling: (3) 30°, (6) 60°

② C=Fail Close, O=Fail Open

③ Positioner: P5, E5, E5XP

V150 VALVE SPECIFICATIONS

- V150F Class 150
- Standard Steam Working Pressure: 150SWP, optional 300PSIG
- Protected Seat Design
- Fire Safe Designed to API607-5
- Spiral Wound Body Gasket w/Secondary metal to metal seat
- Carbon Steel or Stainless Steel Body
- Seats: 50/50
- Max Temp: 50/50 seats: 525°F

PNEUMATIC ACTUATOR FEATURES

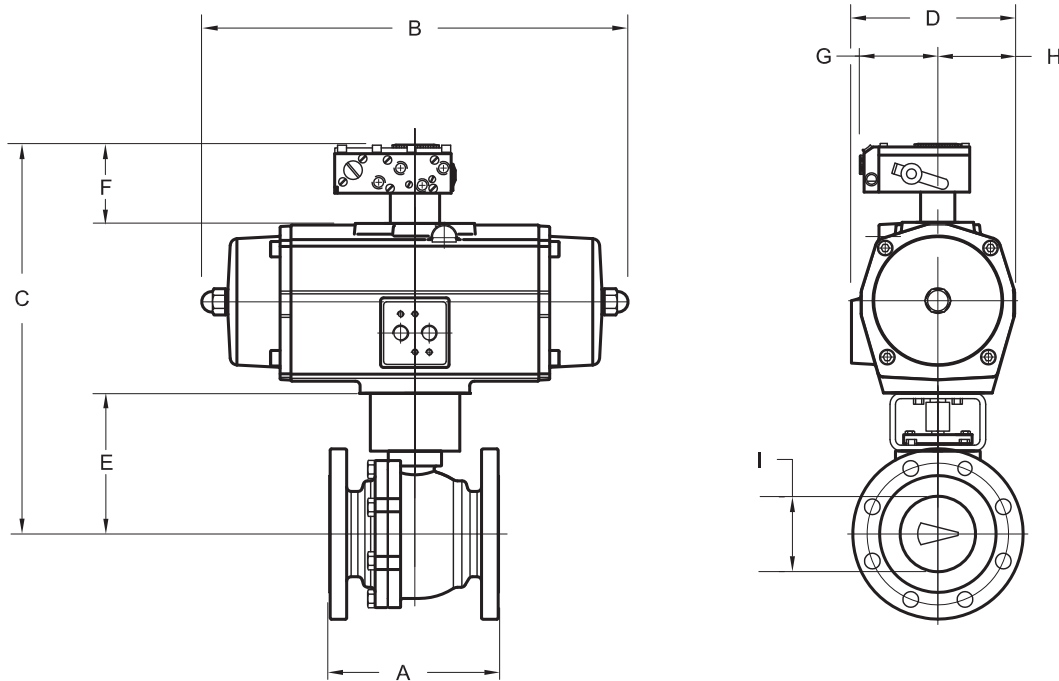
- E Series spring return rack and pinion pneumatic actuator
- Corrosion resistant coating
- NAMUR solenoid mounting pad, ISO 5211 mounting standard
- Visual position indicator
- High duty cycle, permanent lubrication
- Temperature range: -4°F to 175°F

V150F_S ESR 3 - 8

V-Port ball valve with spring return pneumatic actuator & positioner

150# Flanged 2-pc body 50/50 Seats

Actuators are sized for 150 psi pressure differential



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	C	D	E	F	G	H	I	Actuator	Wt.(lbs.)	Model No.
80 psig Minimum Actuator Air Supply = 8S												
3"	8.00	15.24	17.89	7.12	6.67	4.09	3.50	3.41	3.00	ES350	89.3	JV150F * S ①EBS ② ③
4"	9.00	20.35	23.08	9.51	8.40	4.48	3.50	4.54	4.00	ES950	161.6	KV150F * S ①EBS ② ③
6"	15.50	22.44	29.70	14.17	11.20	4.48	3.50	6.89	5.98	PS2500	373.5	MV150F * S ①EBS ② ③
8"	18.00	32.83	31.04	15.35	11.60	4.48	3.50	7.48	7.87	PS4000	567.5	NV150F * S ①EBS ② ③
60 psig Minimum Actuator Air Supply = 6S												
3"	8.00	18.78	19.81	8.52	6.67	4.48	3.50	4.08	3.00	ES600	112.8	JV150F * S ①E6S ② ③
4"	9.00	20.35	23.08	9.51	8.40	4.48	3.50	4.54	4.00	ES950	161.6	KV150F * S ①E6S ② ③
6"	15.50	22.44	29.70	14.17	11.20	4.48	3.50	6.89	5.98	PS2500	373.5	MV150F * S ①E6S ② ③
8"										N/A		

Note: Dimensions "C" & "E" include a 3" high mounting bracket on 3" valve and a 4" high mounting bracket on 4" - 8" valves

*C = Carbon Stl Body, 316SS Trim

*S = 316SS Body & Trim

① Ball Drilling: (3) 30°, (6) 60°

② C=Fail Close, O=Fail Open

③ Positioner: P5, E5, E5XP

V150 VALVE SPECIFICATIONS

- V150F Class 150
- Standard Steam Working Pressure: 150SWP, optional 300PSIG
- Protected Seat Design
- Fire Safe Designed to API607-5
- Spiral Wound Body Gasket w/Secondary metal to metal seat
- Carbon Steel or Stainless Steel Body
- Seats: 50/50
- Max Temp: 50/50 seats: 525°F

PNEUMATIC ACTUATOR FEATURES

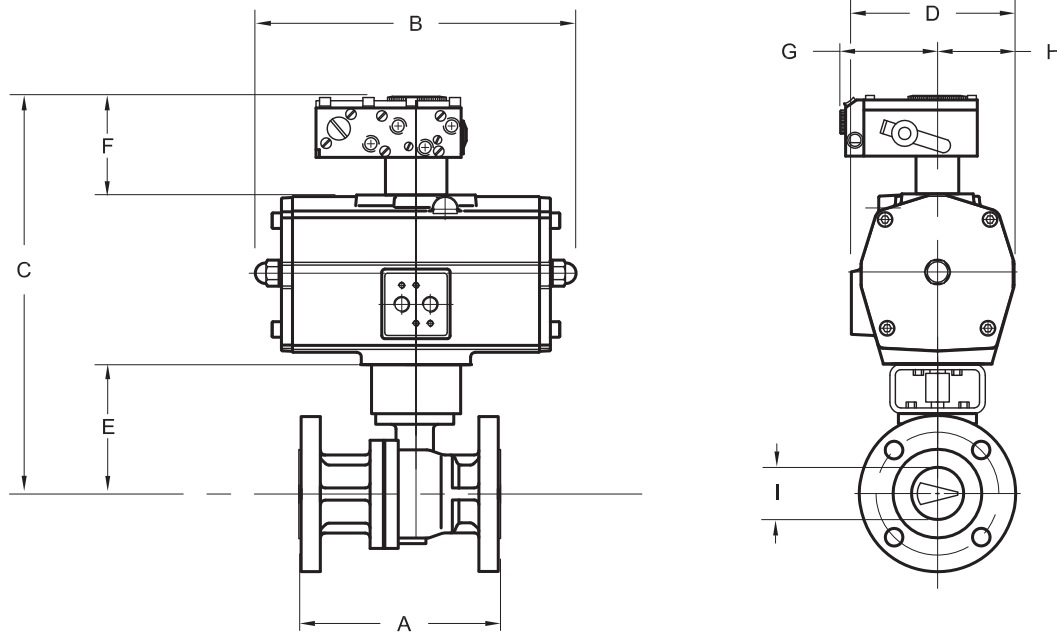
- E Series spring return rack and pinion pneumatic actuator
- Corrosion resistant coating
- NAMUR solenoid mounting pad, ISO 5211 mounting standard
- Visual position indicator
- High duty cycle, permanent lubrication
- Temperature range: -4°F to 175°F

V150F_S EDA .5 - 2

V-Port ball valve with double acting pneumatic actuator & positioner

150# Flanged 2-pc body 50/50 Seats

Actuators are sized for 150 psi pressure differential



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	C	D	E	F	G	H	I	Actuator	Wt.(lbs.)	Model No.
80 psig Minimum Actuator Air Supply = 8D												
1/2"	4.25	6.26	11.78	3.26	4.54	4.09	3.50	1.46	.59	ED25	16.4	CV150F * S ① E8D ②
3/4"	4.62	6.26	11.94	3.26	4.70	4.09	3.50	1.46	.79	ED25	17.4	DV150F * S ① E8D ②
1"	5.00	6.26	12.30	3.26	5.06	4.09	3.50	1.46	.98	ED25	19.9	EV150F * S ① E8D ②
1-1/2"	6.50	7.83	13.87	4.19	5.65	4.09	3.50	1.93	1.50	ED65	29.3	GV150F * S ① E8D ②
2"	7.00	7.83	14.12	4.19	5.90	4.09	3.50	1.93	1.97	ED65	35.8	HV150F * S ① E8D ②
60 psig Minimum Actuator Air Supply = 6D												
1/2"	4.25	6.26	11.78	3.26	4.54	4.09	3.50	1.46	.59	ED25	16.4	CV150F * S ① E6D ②
3/4"	4.62	6.26	11.94	3.26	4.70	4.09	3.50	1.70	.79	ED25	17.4	DV150F * S ① E6D ②
1"	5.00	6.26	12.30	3.26	5.06	4.09	3.50	1.93	.98	ED25	19.9	EV150F * S ① E6D ②
1-1/2"	6.50	7.83	13.87	4.19	5.65	4.09	3.50	1.93	1.50	ED65	29.3	GV150F * S ① E6D ②
2"	7.00	8.70	14.64	4.60	5.90	4.09	3.50	2.12	1.97	ED100	37.3	HV150F * S ① E6D ②

Note: Dimensions "C" & "E" include a 3" high mounting bracket

*C = Carbon Stl Body, 316SS Trim

*S = 316SS Body & Trim

① Ball Drilling: (3) 30°, (6) 60°

② Positioner: P5, E5, E5XP

V150 VALVE SPECIFICATIONS

- V150F Class 150
- Standard Steam Working Pressure: 150SWP, optional 300PSIG
- Protected Seat Design
- Fire Safe Designed to API607-5
- Spiral Wound Body Gasket w/Secondary metal to metal seat
- Carbon Steel or Stainless Steel Body
- Seats: 50/50
- Max Temp: 50/50 seats: 525°F

PNEUMATIC ACTUATOR FEATURES

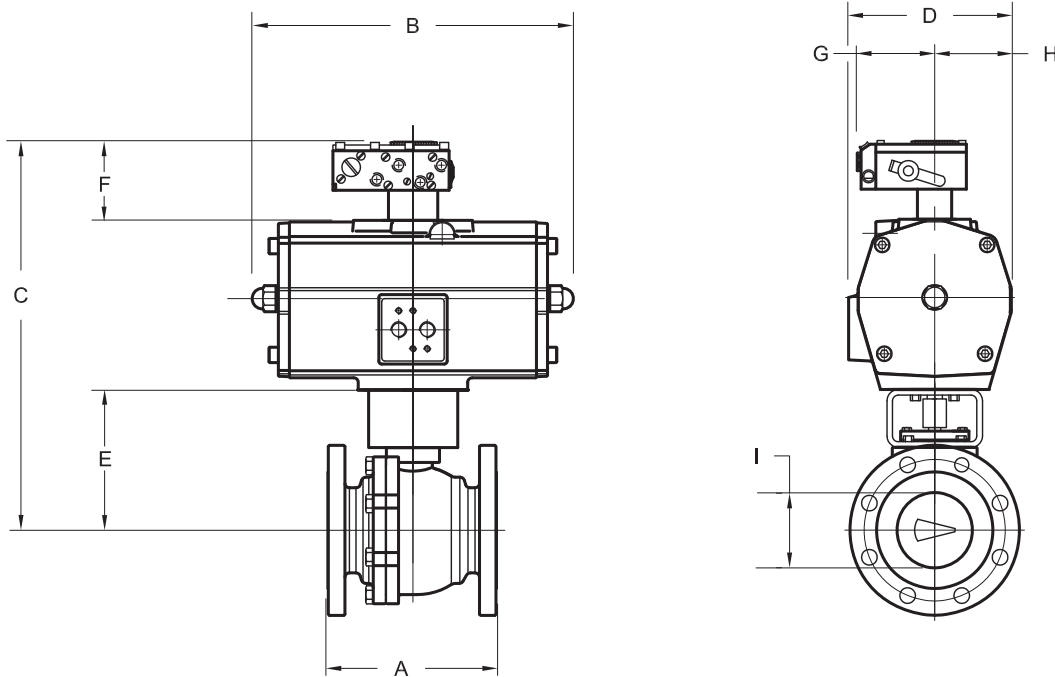
- E Series double acting rack and pinion pneumatic actuator
- Corrosion resistant coating
- NAMUR solenoid mounting pad, ISO 5211 mounting standard
- Visual position indicator
- High duty cycle, permanent lubrication
- Temperature range: -4°F to 175°F

V150F_S EDA 3 - 8

V-Port ball valve with double acting pneumatic actuator & positioner

150# Flanged 2-pc body 50/50 Seats

Actuators are sized for 150 psi pressure differential



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	C	D	E	F	G	H	I	Actuator	Wt.(lbs.)	Model No.
80 psig Minimum Actuator Air Supply = 8D												
3"	8.00	11.14	16.39	5.39	6.67	4.09	3.50	2.52	3.00	ED200	64.8	JV150F * S ①E8D ②
4"	9.00	12.01	19.62	7.12	8.40	4.09	3.50	3.41	4.00	ED350	99.4	KV150F * S ①E8D ②
6"	15.50	16.69	25.88	9.51	11.20	4.48	3.50	4.54	5.98	ED950	237.7	MV150F * S ①E8D ②
8"	18.00	20.31	27.77	10.81	11.60	4.48	3.50	5.21	7.87	ED1600	370.6	NV150F * S ①E8D ②
60 psig Minimum Actuator Air Supply = 6D												
3"	8.00	11.14	16.39	5.39	6.67	4.09	3.50	2.52	3.00	ED200	64.8	JV150F * S ①E6D ②
4"	9.00	12.01	19.62	7.12	8.40	4.09	3.50	3.41	4.00	ED350	99.4	KV150F * S ①E6D ②
6"	15.50	20.31	27.37	10.81	11.20	4.48	3.50	5.21	5.98	ED1600	273.6	MV150F * S ①E6D ②
8"	18.00	14.88	30.10	14.17	11.60	4.48	3.50	6.89	7.87	PD2500	401.5	MV150F * S ①E6D ②

Note: Dimensions "C " & "E" include a 3" high mounting bracket on 3" valve and a 4" high mounting bracket on 4" - 8" valves

*C = Carbon Stl Body, 316SS Trim

*S = 316SS Body & Trim

① Ball Drilling: (3) 30°, (6) 60°

② Positioner: P5, E5, E5XP

V150 VALVE SPECIFICATIONS

- V150F Class 150
- Standard Steam Working Pressure: 150SWP, optional 300PSIG
- Protected Seat Design
- Fire Safe Designed to API607-5
- Spiral Wound Body Gasket w/Secondary metal to metal seat
- Carbon Steel or Stainless Steel Body
- Seats: 50/50
- Max Temp: 50/50 seats: 525°F

PNEUMATIC ACTUATOR FEATURES

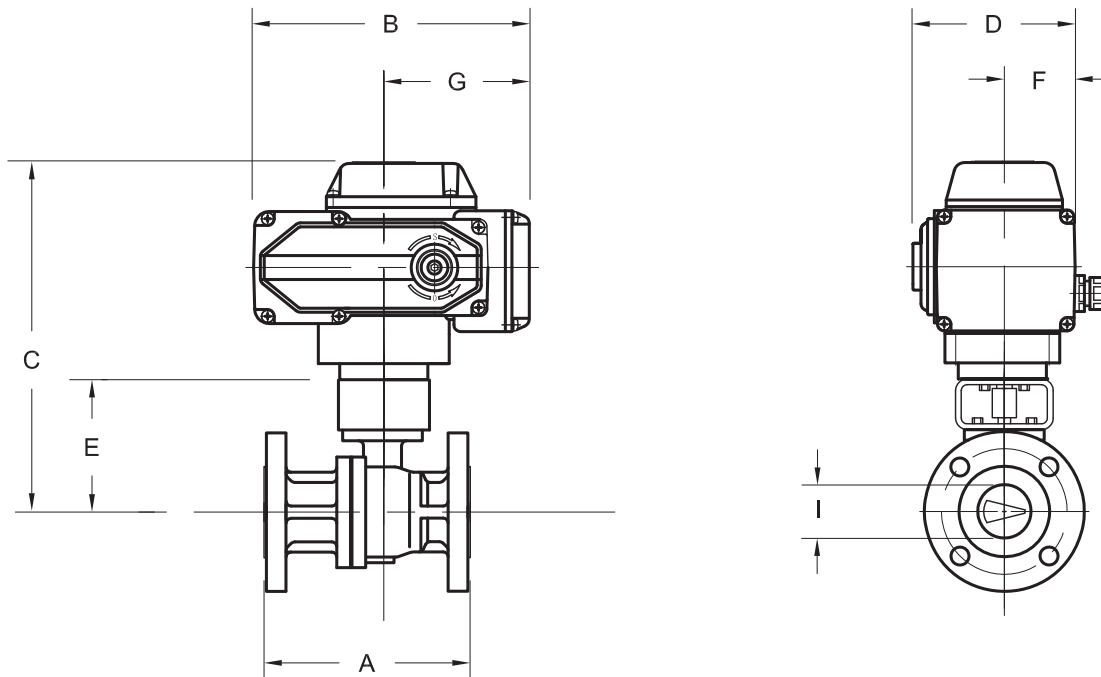
- E & P Series double acting rack and pinion pneumatic actuator
- Corrosion resistant coating
- NAMUR solenoid mounting pad, ISO 5211 mounting standard
- Visual position indicator
- High duty cycle, permanent lubrication
- Temperature range: -4°F to 175°F

V150F_S K4A-P420 .5 - 2

V-Port ball valve with electric actuator for throttling service

150# Flanged 2-pc body 50/50 Seats

Actuators are sized for 150 psi pressure differential



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	C	D	E	F	G	I	Actuator	Wt.(lbs.)	Model No.
1/2"	4.25	6.24	9.25	4.51	4.54	2.00	2.99	.59	Nucom Z	14.0	CV150F * S ① K4A-P420
3/4"	4.62	6.24	9.37	4.51	4.66	2.00	2.99	.79	Nucom Z	15.0	DV150F * S ① K4A-P420
1"	5.00	6.24	9.76	4.51	5.05	2.00	2.99	.98	Nucom Z	17.5	EV150F * S ① K4A-P420
1-1/2"	6.50	8.17	12.09	4.82	5.65	1.62	4.33	1.50	Nucom-10NS/30	29.5	GV150F * S ① K4A-P420
2"	7.00	10.10	13.16	6.16	5.90	2.46	5.25	1.97	Nucom-10NM/30	44.0	HV150F * S ① K4A-P420

Note: Dimensions "C" & "E" include a 3" high mounting bracket

*C = Carbon Stl Body, 316SS Trim

*S = 316SS Body & Trim

① Ball Drilling: (3) 30°, (6) 60°

V150 VALVE SPECIFICATIONS

- V150F Class 150
- Standard Steam Working Pressure: 150SWP, optional 300PSIG
- Protected Seat Design
- Fire Safe Designed to API607-5
- Spiral Wound Body Gasket w/Secondary metal to metal seat
- Carbon Steel or Stainless Steel Body
- Seats: 50/50
- Max Temp: 50/50 seats: 525°F

ELECTRIC ACTUATOR FEATURES

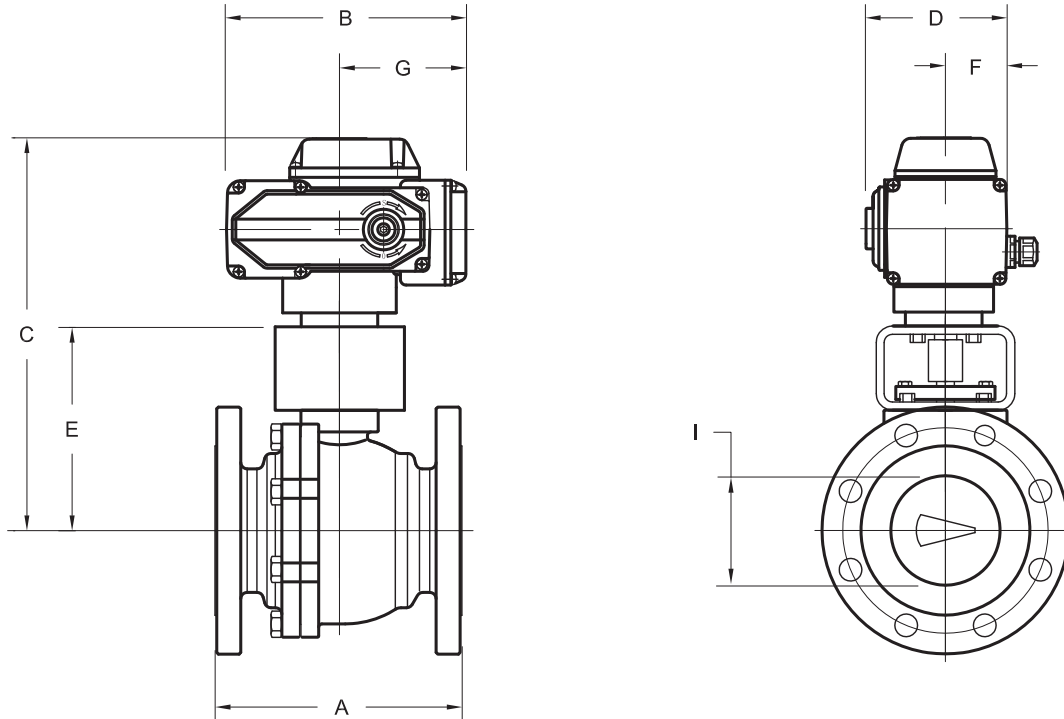
- K Series electric actuator
- Actuator speed: 25 sec.
- Most voltages available
- Quarter turn: 0-90° rotation
- NEMA 4/4X certified by UL labs
- ISO 5211 mounting standard
- Visual Position Indicator
- Self-locking drive train
- Mounts in any direction
- 1/2" NPT conduit connection
- CSA-NRTL /C and CE certified
- Temperature range: 0°F to 160°F

V150F_S K4A-P420 3 - 8

V-Port ball valve with electric actuator for throttling service

150# Flanged 2-pc body 50/50 Seats

Actuators are sized for 150 psi pressure differential



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	C	D	E	F	G	I	Actuator	Wt.(lbs.)	Model No.
3"	8.00	10.10	13.95	6.16	6.67	2.46	5.25	3.00	Nucom-10NM/30	65.5	JV150F * S ① K4A-P420
4"	9.00	15.00	17.61	9.53	8.40	4.13	7.85	4.00	Nucom-10NL/30	90.0	KV150F * S ① K4A-P420
6"	15.50	15.00	20.41	9.53	11.20	4.13	7.85	5.98	Nucom-10NL/100	219.0	MV150F * S ① K4A-P420
8"	18.00	15.00	20.81	9.53	11.60	4.13	7.85	7.87	Nucom-10NL/200	316.0	NV150F * S ① K4A-P420

Note: Dimensions "C" & "E" include a 3" high mounting bracket on 3" valve and a 4" high mounting bracket on 4" - 8" valves

*C = Carbon Stl Body, 316SS Trim

*S = 316SS Body & Trim

① Ball Drilling: (3) 30°, (6) 60°

V150 VALVE SPECIFICATIONS

- V150F Class 150
- Standard Steam Working Pressure: 150SWP, optional 300PSIG
- Protected Seat Design
- Fire Safe Designed to API607-5
- Spiral Wound Body Gasket w/Secondary metal to metal seat
- Carbon Steel or Stainless Steel Body
- Seats: 50/50
- Max Temp: 50/50 seats: 525°F

ELECTRIC ACTUATOR FEATURES

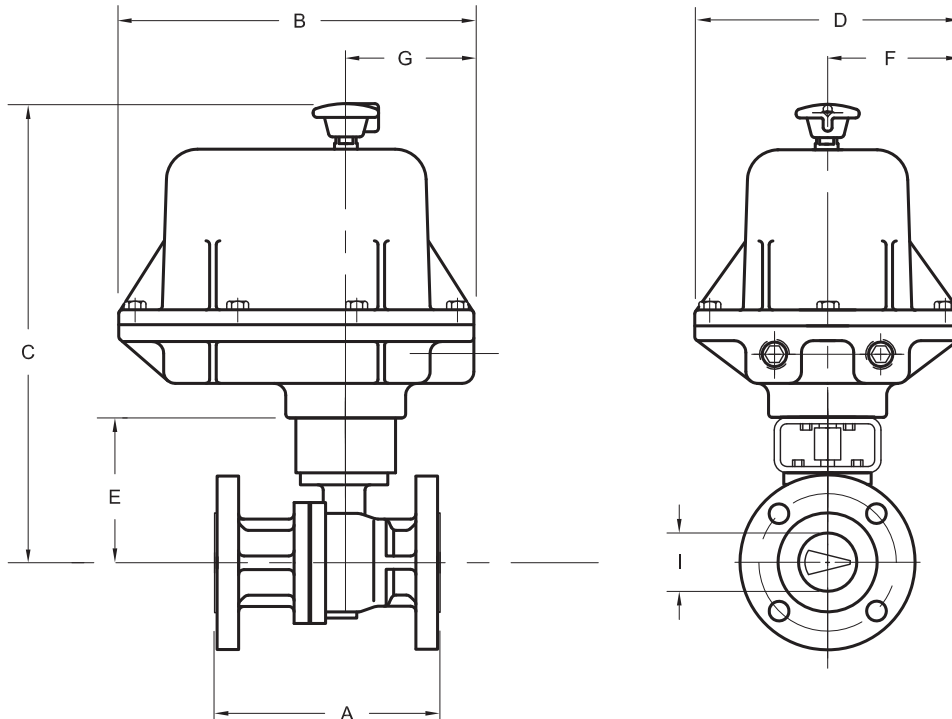
- K Series electric actuator
- Actuator speed: 25 sec.
- Most voltages available
- Quarter turn: 0-90° rotation
- NEMA 4/4X certified by UL labs
- ISO 5211 mounting standard
- Visual position indicator
- Self-locking drive train
- Mounts in any direction
- 1/2" NPT conduit connection
- CSA-NRTL /C and CE certified
- Temperature range: 0°F to 160°F

V150F_S B7A-420 .5 - 1.5

V-Port ball valve with electric actuator, NEMA 7, 120vac

150# Flanged 2-pc body 50/50 seats

Actuators are sized for 150 psi pressure differential



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	C	D	E	F	G	I	Actuator	Wt.(lbs.)	Model No.
1/2"	4.25	8.25	12.04	6.25	4.54	3.12	3.75	.59	EM310-30	27.0	CV150F * S ① B7A-420
3/4"	4.62	8.25	12.16	6.25	4.66	3.12	3.75	.79	EM310-30	28.0	DV150F * S ① B7A-420
1"	5.00	8.25	12.55	6.25	5.05	3.12	3.75	.98	EM310-30	30.5	EV150F * S ① B7A-420
1-1/2"	6.50	8.25	13.10	6.25	5.60	3.12	3.75	1.50	EM310-30	37.5	GV150F * S ① B7A-420

Note: Dimensions "C" & "E" include a 3" high mounting bracket

*C = Carbon Stl Body, 316SS Trim

*S = 316SS Body & Trim

① Ball Drilling: (3) 30°, (6) 60°

V150 VALVE SPECIFICATIONS

- V150F Class 150
- Standard Steam Working Pressure: 150SWP, optional 300PSIG
- Protected Seat Design
- Fire Safe Designed to API607-5
- Spiral Wound Body Gasket w/Secondary metal to metal seat
- Carbon Steel or Stainless Steel Body
- Seats: 50/50
- Max Temp: 50/50 seats: 525°F

ELECTRIC ACTUATOR FEATURES

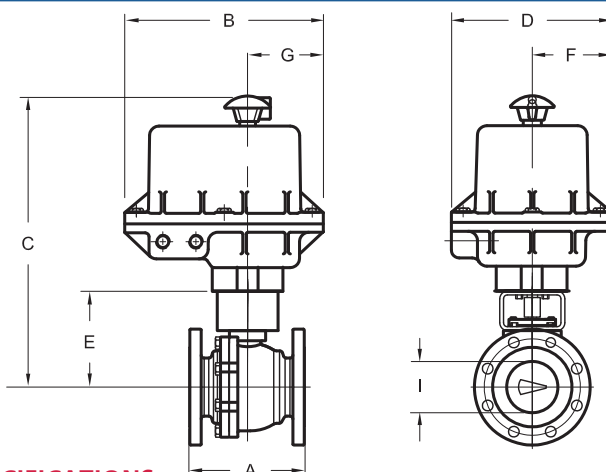
- B7 Series electric actuator
- NEMA 4, 4x, 7, & 9; CSA approved
- Weatherproof
- Class I Groups C and D, Div. 1
- Class II Groups E, F, & G
- (2) 1/2" NPT conduit entries
- Manual override
- Visual position Indicator
- CSA certified
- Temperature range: 0°F to 175°F

V150F_S B7A-420 2 - 8

V-Port ball valve with electric actuator, NEMA 7, 120vac

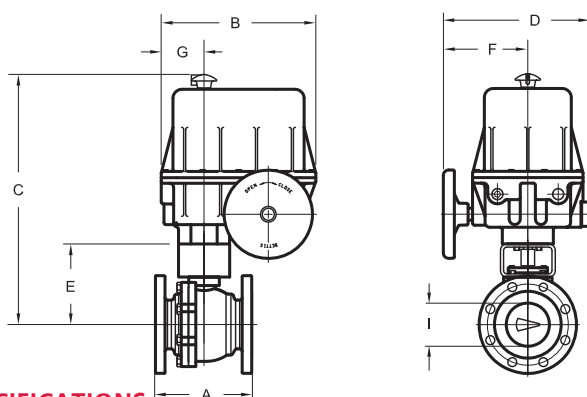
150# Flanged 2-pc body 50/50 seats

Actuators are sized for 150 psi pressure differential



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	C	D	E	F	G	I	Actuator	Wt.(lbs.)	Model No.
2"	7.00	8.25	15.34	6.25	5.90	3.12	3.75	1.97	EM500-15	44.0	HV150F * S ①② B7A-420
3"	8.00	8.25	16.11	6.25	6.67	3.12	3.75	3.00	EM500-30	65.5	JV150F * S ①② B7A-420



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	C	D	E	F	G	I	Actuator	Wt.(lbs.)	Model No.
4"	9.00	14.00	23.73	13.31	8.40	7.62	3.88	4.00	EM810-30	297.5	KV150F * S ①② B7A-420
6"	15.50	14.00	23.73	13.31	11.20	7.62	3.88	5.98	EM830-30	335.0	MV150F * S ①② B7A-420
8"	18.00	14.00	23.73	13.31	11.60	7.62	3.88	7.87	EM840-72	432.0	NV150F * S ①② B7A-420

Note: Dimensions "C " & "E" include a 3" high mounting bracket on 2" & 3" valve and a 4" high mounting bracket on 4 - 8" valves

*C = Carbon Stl Body, 316SS Trim

*S = 316SS Body & Trim

① Ball Drilling: (3) 30°, (6) 60°

V150 VALVE SPECIFICATIONS

- V150F Class 150
- Standard Steam Working Pressure: 150SWP, optional 300PSIG
- Protected Seat Design
- Fire Safe Designed to API607-5
- Spiral Wound Body Gasket w/Secondary metal to metal seat
- Carbon Steel or Stainless Steel Body
- Seats: 50/50
- Max Temp: 50/50 seats: 525°F

ELECTRIC ACTUATOR FEATURES

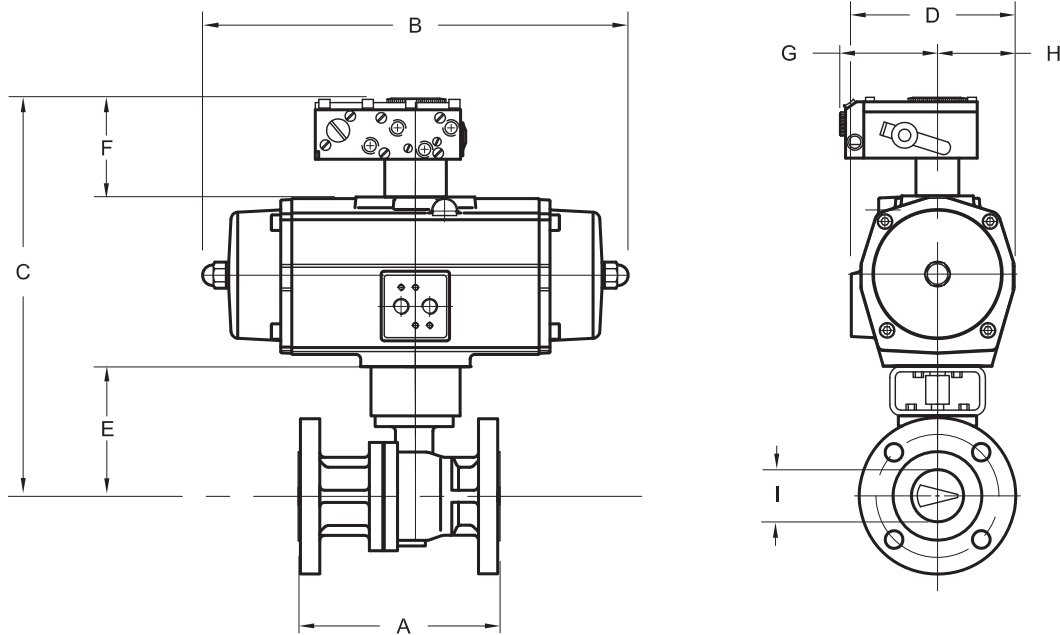
- B7 Series electric actuator
- NEMA 4, 4x, 7, & 9; CSA approved
- Weatherproof
- Class I Groups C and D, Div. 1
- Class II Groups E, F, & G
- (2) 1/2" NPT conduit entries
- Manual override
- Visual position Indicator
- CSA certified
- Temperature range: 0°F to 175°F

V300F_F ESR .5 - 2

V-Port ball valve with spring return pneumatic actuator & positioner

300# Flanged 2-pc body TFM Seats

Actuators are sized for 150 psi pressure differential



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	C	D	E	F	G	H	I	Actuator	Wt.(lbs.)	Model No.
80 psig Minimum Actuator Air Supply = 8S												
1/2"	5.50	8.03	12.29	3.78	4.54	4.09	3.50	1.70	.59	ES40	19.8	CV300F * F ①EBS ② ③
3/4"	6.00	8.03	12.45	3.78	4.70	4.09	3.50	1.70	.79	ES40	21.8	DV300F * F ①EBS ② ③
1"	6.50	8.03	12.81	3.78	5.06	4.09	3.50	1.70	.98	ES40	24.8	EV300F * F ①EBS ② ③
1-1/2"	7.50	10.51	14.39	4.60	5.65	4.09	3.50	2.12	1.50	ES100	38.6	GV300F * F ①EBS ② ③
2"	8.50	14.17	15.62	5.39	5.90	4.09	3.50	2.52	1.97	ES200	54.6	HV300F * F ①EBS ② ③
60 psig Minimum Actuator Air Supply = 6S												
1/2"	5.50	9.80	12.76	4.19	4.54	4.09	3.50	1.93	.59	ES65	22.4	CV300F * F ①E6S ② ③
3/4"	6.00	9.80	12.92	4.19	4.70	4.09	3.50	1.93	.79	ES65	24.4	DV300F * F ①E6S ② ③
1"	6.50	9.80	13.28	4.19	5.06	4.09	3.50	1.93	.98	ES65	27.4	EV300F * F ①E6S ② ③
1-1/2"	7.50	14.17	15.37	5.39	5.65	4.09	3.50	2.52	1.50	ES200	48.6	GV300F * F ①E6S ② ③
2"	8.50	14.17	14.39	5.39	5.90	4.09	3.50	2.52	1.97	ES200	54.6	HV300F * F ①E6S ② ③

Note: Dimensions "C" & "E" include a 3" high mounting bracket

*C = Carbon Stl Body, 316SS Trim

*S = 316SS Body & Trim

① Ball Drilling: (3) 30°, (6) 60°

② C=Fail Close, O=Fail Open

③ Positioner: P5, E5, E5XP

V300 VALVE SPECIFICATIONS

- V300F Class 300
- Standard Steam Working Pressure: 300SWP
- Protected Seat Design
- Fire Safe Designed to API607-5
- Spiral Wound Body Gasket w/Secondary metal to metal seat
- Carbon Steel or Stainless Steel Body
- Seats: TFM
- Max Temp: TFM seats: 475°F

PNEUMATIC ACTUATOR FEATURES

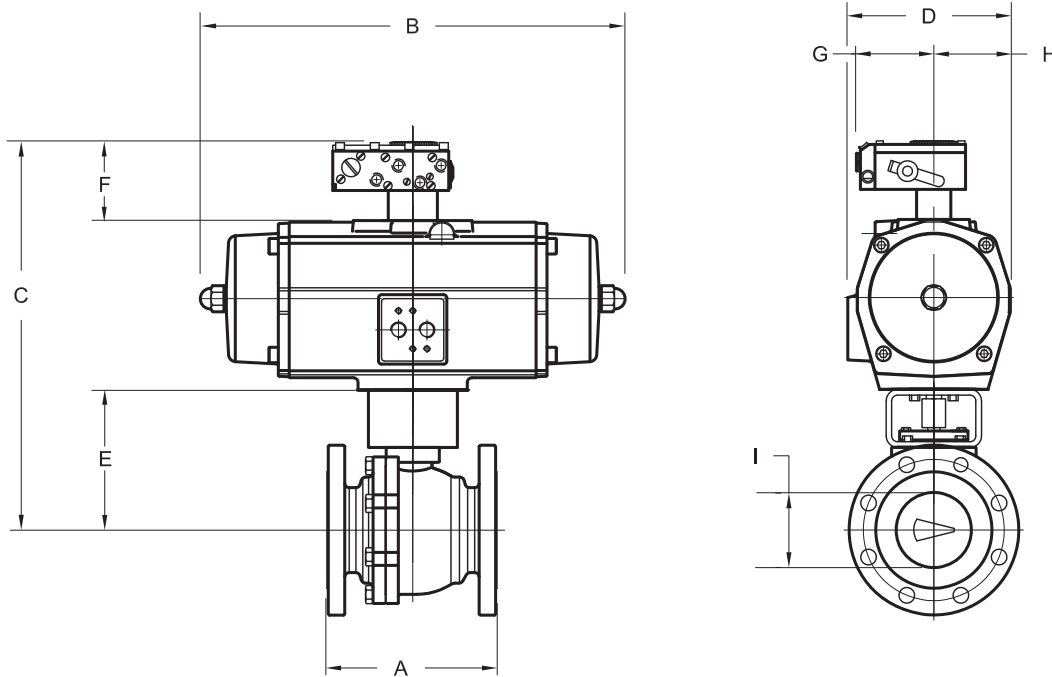
- E Series spring return rack and pinion pneumatic actuator
- Corrosion resistant coating
- NAMUR solenoid mounting pad, ISO 5211 mounting standard
- Visual position indicator
- High duty cycle, permanent lubrication
- Temperature range: -4°F to 175°F

V300F_F ESR 3 - 8

V-Port ball valve with spring return pneumatic actuator & positioner

300# Flanged 2-pc body TFM Seats

Actuators are sized for 150 psi pressure differential



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	C	D	E	F	G	H	I	Actuator	Wt.(lbs.)	Model No.
80 psig Minimum Actuator Air Supply = 8S												
3"	11.12	15.24	17.89	7.12	6.67	4.09	3.50	3.41	3.00	ES350	106.8	JV300F * F ①EBS ② ③
4"	12.00	18.78	21.54	8.52	8.40	4.48	3.50	4.08	4.00	ES600	168.3	KV300F * F ①EBS ② ③
6"	15.88	25.08	27.37	10.81	11.20	4.48	3.50	5.21	5.98	ES1600	380.6	MV300F * F ①EBS ② ③
8"	19.75	32.83	31.04	15.35	11.60	4.48	3.50	7.48	7.87	PS4000	676.5	NV300F * F ①EBS ② ③
60 psig Minimum Actuator Air Supply = 6S												
3"	11.12	18.78	19.81	8.52	6.67	4.48	3.50	4.08	3.00	ES600	130.3	JV300F * F ①E6S ② ③
4"	12.00	18.78	21.54	8.52	8.40	4.48	3.50	4.08	4.00	ES600	168.3	KV300F * F ①E6S ② ③
6"	15.88	22.44	29.70	14.17	11.20	4.48	3.50	6.89	5.98	PS2500	429.5	MV300F * F ①E6S ② ③
8"	19.75	32.83	31.04	15.35	11.20	4.48	3.50	7.48	7.87	PS4000	676.5	MV300F * F ①E6S ② ③

Note: Dimensions "C" & "E" include a 3" high mounting bracket on 3" valve and a 4" high mounting bracket on 4"-8" valves

*C = Carbon Stl Body, 316SS Trim

*S = 316SS Body & Trim

① Ball Drilling: (3) 30°, (6) 60°

② C=Fail Close, O=Fail Open

③ Positioner: P5, E5, E5XP

V300 VALVE SPECIFICATIONS

- V300F Class 300
- Standard Steam Working Pressure: 300SWP
- Protected Seat Design
- Fire Safe Designed to API607-5
- Spiral Wound Body Gasket w/Secondary metal to metal seat
- Carbon Steel or Stainless Steel Body
- Seats: TFM
- Max Temp: TFM seats: 475°F

PNEUMATIC ACTUATOR FEATURES

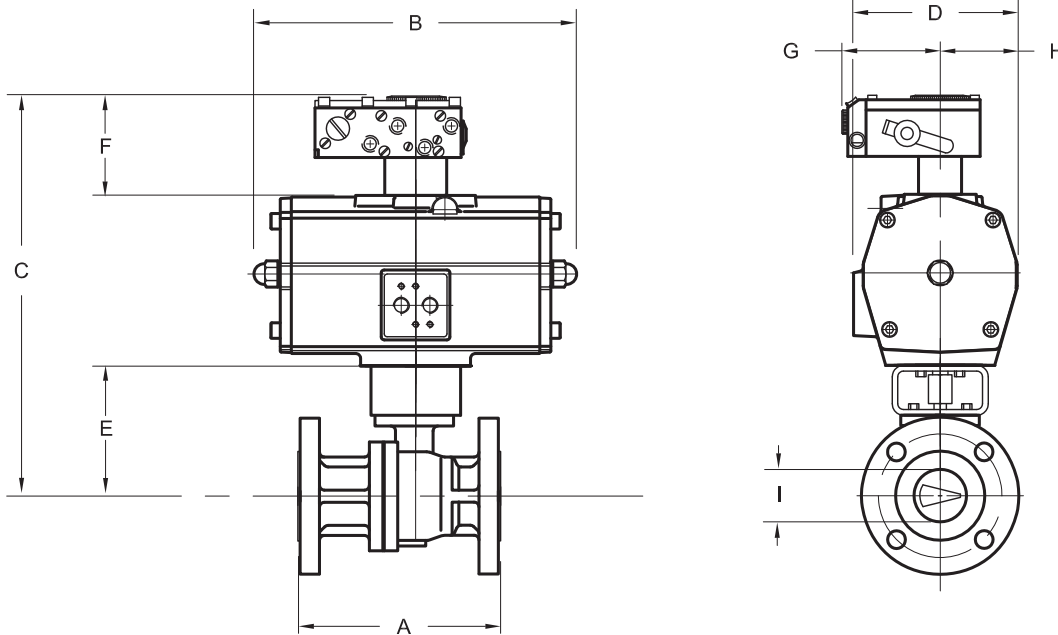
- E Series spring return rack and pinion pneumatic actuator
- Corrosion resistant coating
- NAMUR solenoid mounting pad, ISO 5211 mounting standard
- Visual position indicator
- High duty cycle, permanent lubrication
- Temperature range: -4°F to 175°F

V300F_F EDA .5 - 2

V-Port ball valve with double acting pneumatic actuator & positioner

300# Flanged 2-pc body TFM Seats

Actuators are sized for 150 psi pressure differential



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	C	D	E	F	G	H	I	Actuator	Wt.(lbs.)	Model No.
80 psig Minimum Actuator Air Supply = 8D												
1/2"	5.50	6.26	11.78	3.26	4.54	4.09	3.50	1.46	.59	ED25	17.4	CV300F * F①E8D ②
3/4"	6.00	6.26	11.94	3.26	4.70	4.09	3.50	1.46	.79	ED25	19.4	DV300F * F①E8D ②
1"	6.50	6.26	12.30	3.26	5.06	4.09	3.50	1.46	.98	ED25	22.4	EV300F * F①E8D ②
1-1/2"	7.50	7.09	13.40	3.78	5.65	4.09	3.50	1.70	1.50	ED40	32.5	GV300F * F①E8D ②
2"	8.50	7.83	14.12	4.19	5.90	4.09	3.50	1.93	1.97	ED65	39.8	HV300F * F①E8D ②
60 psig Minimum Actuator Air Supply = 6D												
1/2"	5.50	6.26	11.78	3.26	4.54	4.09	3.50	1.46	.59	ED25	17.4	CV300F * F①E6D ②
3/4"	6.00	6.26	11.94	3.26	4.70	4.09	3.50	1.46	.79	ED25	19.4	DV300F * F①E6D ②
1"	6.50	6.26	12.30	3.26	5.06	4.09	3.50	1.46	.98	ED25	22.4	EV300F * F①E6D ②
1-1/2"	7.50	7.83	13.40	4.19	5.65	4.09	3.50	1.93	1.50	ED65	33.8	GV300F * F①E6D ②
2"	8.50	7.83	14.12	4.19	5.90	4.09	3.50	1.93	1.97	ED65	39.8	HV300F * F①E6D ②

Note: Dimensions "C" & "E" include a 3" high mounting bracket

*C = Carbon Stl Body, 316SS Trim

*S = 316SS Body & Trim

① Ball Drilling: (3) 30°, (6) 60°

② Positioner: P5, E5, E5XP

V300 VALVE SPECIFICATIONS

- V300F Class 300
- Standard Steam Working Pressure: 300SWP
- Protected Seat Design
- Fire Safe Designed to API607-5
- Spiral Wound Body Gasket w/Secondary metal to metal seat
- Carbon Steel or Stainless Steel Body
- Seats: TFM
- Max Temp: TFM seats: 475°F

PNEUMATIC ACTUATOR FEATURES

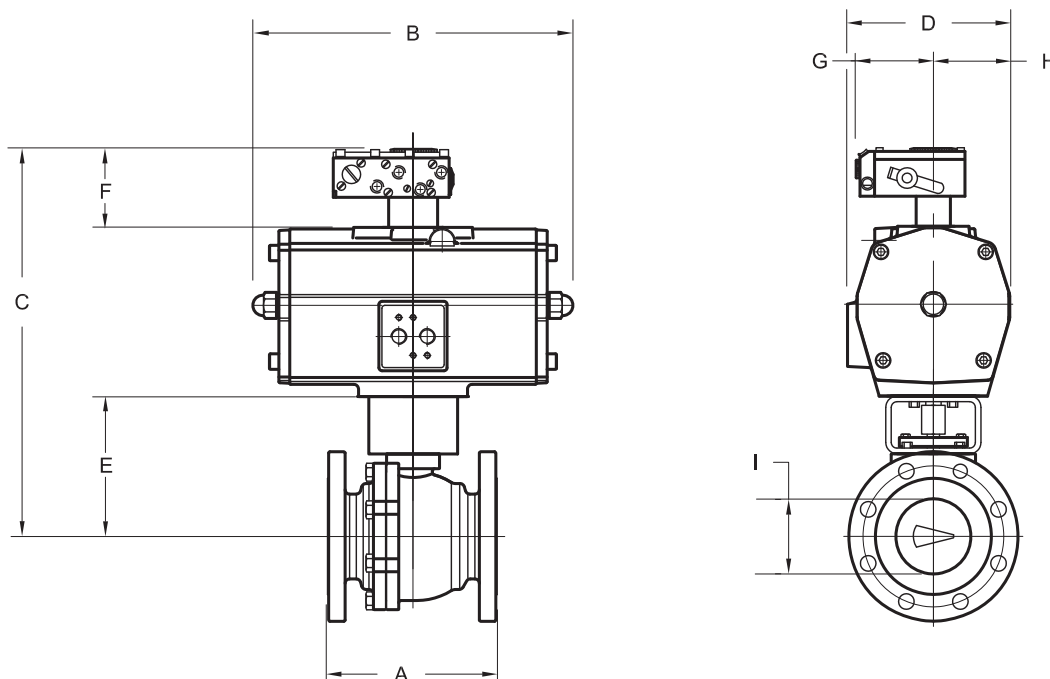
- E Series double acting rack and pinion pneumatic actuator
- Corrosion resistant coating
- NAMUR solenoid mounting pad, ISO 5211 mounting standard
- Visual position indicator
- High duty cycle, permanent lubrication
- Temperature range: -4°F to 175°F

V300F_F EDA 3 - 8

V-Port ball valve with double acting pneumatic actuator & positioner

300# Flanged 2-pc body TFM Seats

Actuators are sized for 150 psi pressure differential



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	C	D	E	F	G	H	I	Actuator	Wt.(lbs.)	Model No.
80 psig Minimum Actuator Air Supply = 8D												
3"	11.12	11.14	16.39	5.39	6.67	4.09	3.50	2.52	3.00	ED200	82.3	JV300F * F①E8D ②
4"	12.00	11.14	18.12	5.39	8.40	4.09	3.50	2.52	4.00	ED200	120.3	KV300F * F①E8D ②
6"	15.88	15.24	24.34	8.52	11.20	4.48	3.50	4.08	5.98	ED600	278.3	MV300F * F①E8D ②
8"	19.75	20.31	27.77	10.81	11.60	4.48	3.50	5.21	7.87	ED1600	479.6	NV300F * F①E8D ②
60 psig Minimum Actuator Air Supply = 6D												
3"	11.12	11.14	16.39	5.39	6.67	4.09	3.50	2.52	3.00	ED200	82.3	JV300F * F①E6D ②
4"	12.00	12.01	19.62	7.12	8.40	4.09	3.50	3.41	4.00	ED350	130.4	KV300F * F①E6D ②
6"	15.88	16.69	25.88	9.51	11.20	4.48	3.50	4.54	5.98	ED950	293.7	MV300F * F①E6D ②
8"	19.75	20.31	27.77	10.81	11.60	4.48	3.50	5.21	7.87	ED1600	479.6	MV300F * F①E6D ②

Note: Dimensions "C " & "E" include a 3" high mounting bracket on 3" valve and a 4" high mounting bracket on 4" - 8" valves

*C = Carbon Stl Body, 316SS Trim

*S = 316SS Body & Trim

① Ball Drilling: (3) 30°, (6) 60°

② Positioner: P5, E5, E5XP

V300 VALVE SPECIFICATIONS

- V300F Class 300
- Standard Steam Working Pressure: 300SWP
- Protected Seat Design
- Fire Safe Designed to API607-5
- Spiral Wound Body Gasket w/Secondary metal to metal seat
- Carbon Steel or Stainless Steel Body
- Seats: TFM
- Max Temp: TFM seats: 475°F

PNEUMATIC ACTUATOR FEATURES

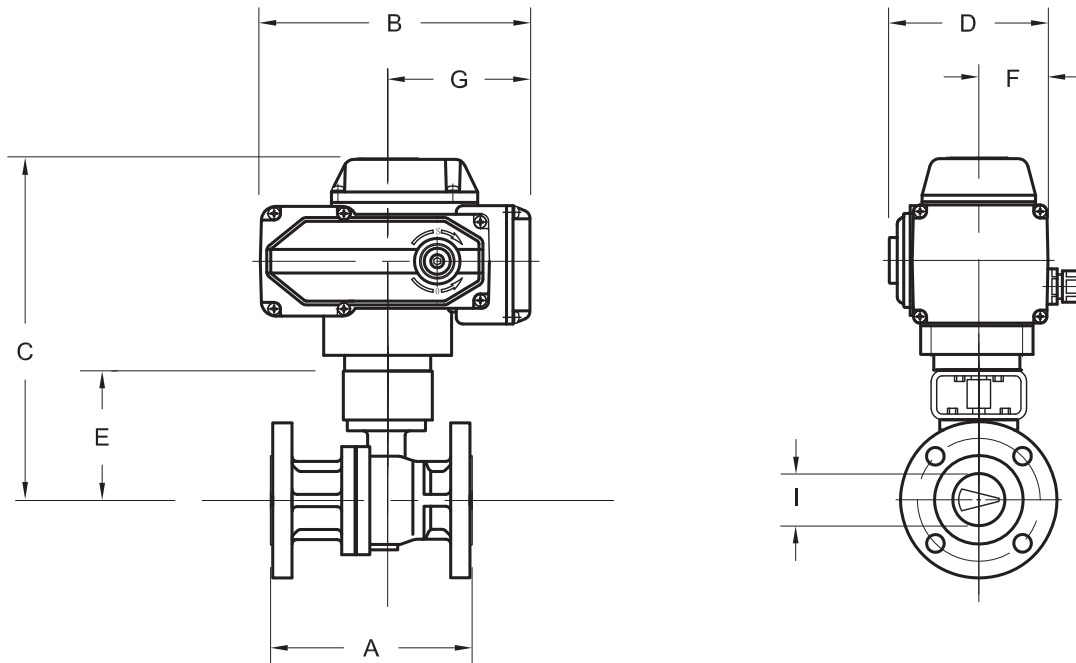
- E Series double acting rack and pinion pneumatic actuator
- Corrosion resistant coating
- NAMUR solenoid mounting pad, ISO 5211 mounting standard
- Visual position indicator
- High duty cycle, permanent lubrication
- Temperature range: -4°F to 175°F

V300F_F K4A-P420 .5 - 2

V-Port ball valve with electric actuator for throttling service

300# Flanged 2-pc body TFM Seats

Actuators are sized for 150 psi pressure differential



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	C	D	E	F	G	I	Actuator	Wt.(lbs.)	Model No.
1/2"	5.50	6.24	9.25	4.51	4.54	2.00	2.99	.59	Nucom Z	15.0	CV300F * F ① K4A-P420
3/4"	6.00	6.24	9.37	4.51	4.66	2.00	2.99	.79	Nucom Z	17.0	DV300F * F ① K4A-P420
1"	6.50	6.24	9.76	4.51	5.05	2.00	2.99	.98	Nucom Z	20.0	EV300F * F ① K4A-P420
1-1/2"	7.50	8.17	12.09	4.82	5.65	2.14	4.33	1.50	Nucom-10NS/30	34.0	GV300F * F ① K4A-P420
2"	8.50	8.17	12.39	4.82	5.90	2.14	4.33	1.97	Nucom-10NS/30	40.0	HV300F * F ① K4A-P420

Note: Dimensions "C" & "E" include a 3" high mounting bracket

*C = Carbon Stl Body, 316SS Trim

*S = 316SS Body & Trim

① Ball Drilling: (3) 30°, (6) 60°

V300 VALVE SPECIFICATIONS

- V300F Class 300
- Standard Steam Working Pressure: 300SWP
- Protected Seat Design
- Fire Safe Designed to API607-5
- Spiral Wound Body Gasket w/Secondary metal to metal seat
- Carbon Steel or Stainless Steel Body
- Seats: TFM
- Max Temp: TFM seats: 475°F

ELECTRIC ACTUATOR FEATURES

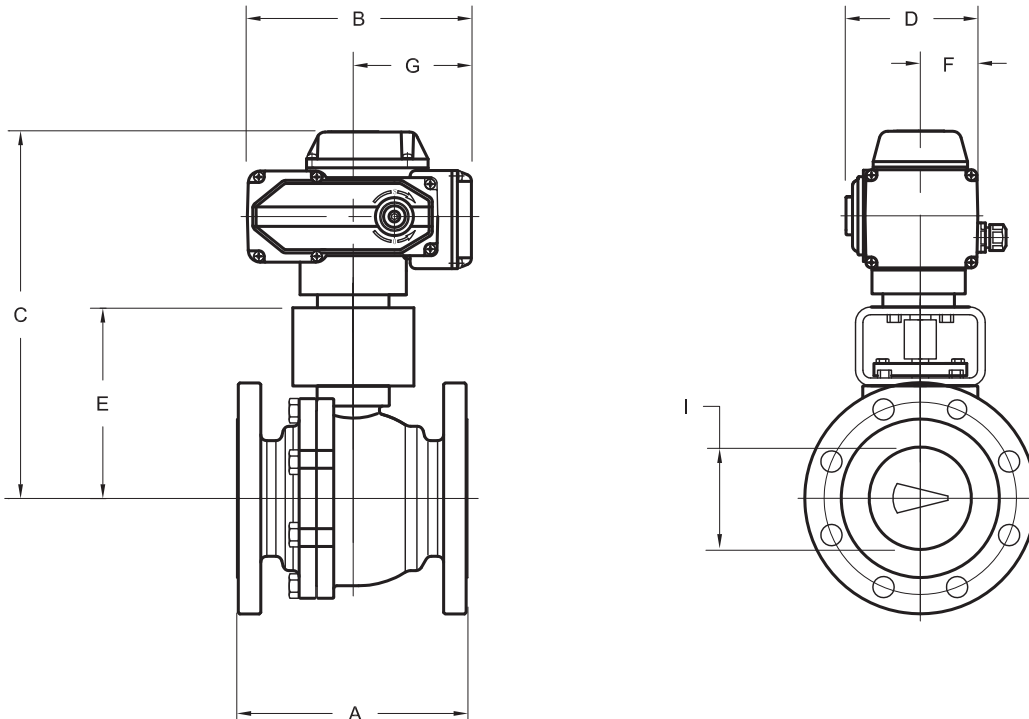
- K Series electric actuator
- Actuator speed: 25 sec.
- Most voltages available
- Quarter turn: 0-90° rotation
- NEMA 4/4X certified by UL labs
- ISO 5211 mounting standard
- Visual Position Indicator
- Self-locking drive train
- Mounts in any direction
- 1/2" NPT conduit connection
- CSA-NRTL /C and CE certified
- Temperature range: 0°F to 160°F

V300F_S K4A-P420 3 - 8

V-Port ball valve with electric actuator for throttling service

300# Flanged 2-pc body 50/50 Seats

Actuators are sized for 150 psi pressure differential



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	C	D	E	F	G	I	Actuator	Wt.(lbs.)	Model No.
3"	11.12	10.10	13.95	6.16	6.67	2.46	5.25	3.00	Nucom-10NM/30	65.5	JV300F * S ① K4A-P420
4"	12.00	15.00	17.61	9.53	8.40	4.13	7.85	4.00	Nucom-10NL/150	147.0	KV300F * S ① K4A-P420
6"	15.88	15.00	20.41	9.53	11.20	4.13	7.85	5.98	Nucom-10NL/100	219.0	MV300F * S ① K4A-P420
8"	19.75	15.00	20.81	9.53	11.60	4.13	7.85	7.87	Nucom-10NL/200	316.0	NV300F * S ① K4A-P420

Note: Dimensions "C" & "E" include a 3" high mounting bracket on 3" valve and a 4" high mounting bracket on 4" - 8" valves

*C = Carbon Stl Body, 316SS Trim

*S = 316SS Body & Trim

① Ball Drilling: (3) 30°, (6) 60°

V300 VALVE SPECIFICATIONS

- V300F Class 300
- Standard Steam Working Pressure: 300SWP
- Protected Seat Design
- Fire Safe Designed to API607-5
- Spiral Wound Body Gasket w/Secondary metal to metal seat
- Carbon Steel or Stainless Steel Body
- Seats: 50/50
- Max Temp: 50/50 seats: 525°F

ELECTRIC ACTUATOR FEATURES

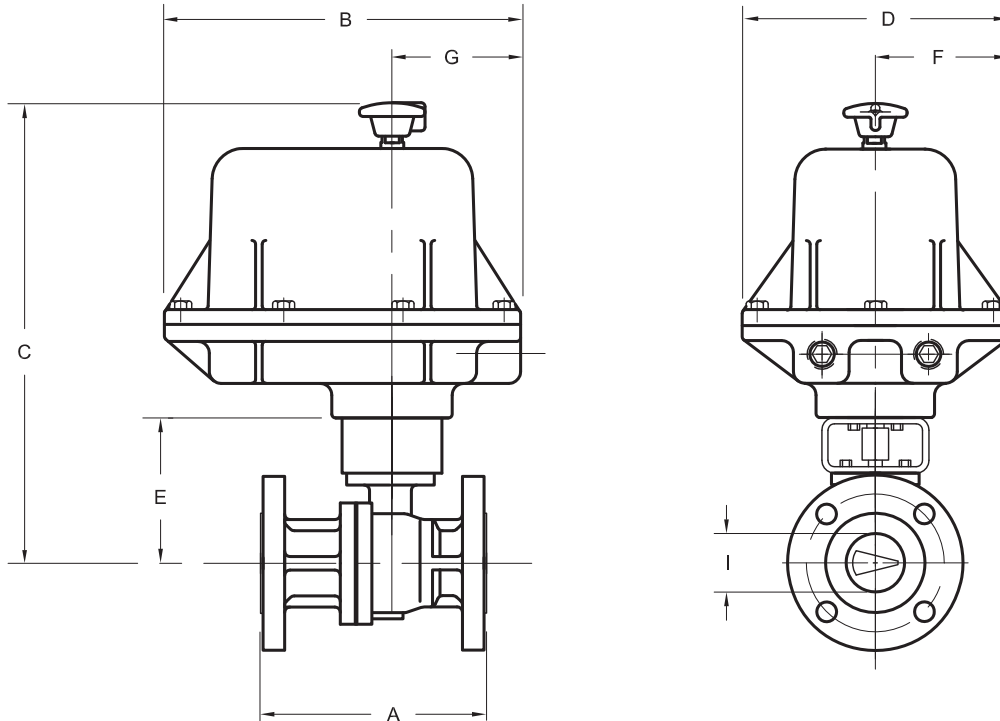
- K Series electric actuator
- Actuator speed: 25 sec.
- Most voltages available
- Quarter turn: 0-90° rotation
- NEMA 4/4X certified by UL labs
- ISO 5211 mounting standard
- Visual position indicator
- Self-locking drive train
- Mounts in any direction
- 1/2" NPT conduit connection
- CSA-NRTL /C and CE certified
- Temperature range: 0°F to 160°F

V300F_F B7A-420 .5 - 2

V-Port ball valve with electric actuator, NEMA 7, 120vac

300# Flanged 2-pc body TFM Seats

Actuators are sized for 150 psi pressure differential



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	C	D	E	F	G	I	Actuator	Wt.(lbs.)	Model No.
1/2"	5.50	8.25	12.04	6.25	4.54	3.12	3.75	.59	EM310-30	28.0	CV300F * F ① B7A-420
3/4"	6.00	8.25	12.16	6.25	4.66	3.12	3.75	.79	EM310-30	30.0	DV300F * F ① B7A-420
1"	6.50	8.25	12.55	6.25	5.05	3.12	3.75	.98	EM310-30	33.0	EV300F * F ① B7A-420
1-1/2"	7.50	8.25	13.10	6.25	5.60	3.12	3.75	1.50	EM310-30	42.0	GV300F * F ① B7A-420
2"	8.50	8.25	13.40	6.25	5.90	3.12	3.75	1.97	EM310-30	48.0	HV300F * F ① B7A-420

Note: Dimensions "C" & "E" include a 3" high mounting bracket

*C = Carbon Stl Body, 316SS Trim

*S = 316SS Body & Trim

① Ball Drilling: (3) 30°, (6) 60°

V300 VALVE SPECIFICATIONS

- V300F Class 300
- Standard Steam Working Pressure: 300SWP
- Protected Seat Design
- Fire Safe Designed to API607-5
- Spiral Wound Body Gasket w/Secondary metal to metal seat
- Carbon Steel or Stainless Steel Body
- Seats: TFM
- Max Temp: TFM seats: 475°F

ELECTRIC ACTUATOR FEATURES

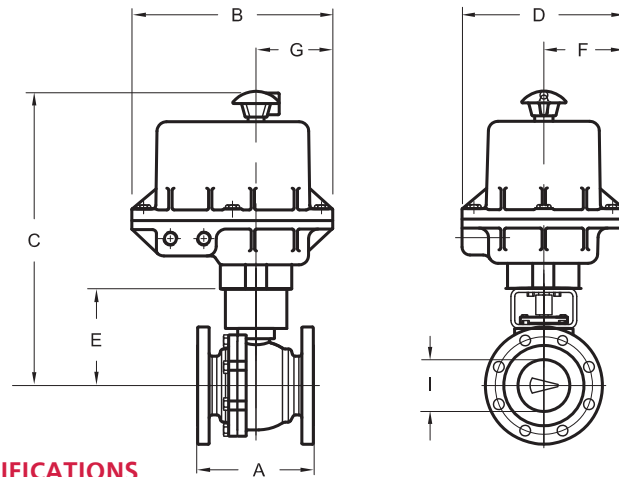
- B7 Series electric actuator
- NEMA 4, 4x, 7, & 9; CSA approved
- Weatherproof
- Class I Groups C and D, Div. 1
- Class II Groups E, F, & G
- (2) 1/2" NPT conduit entries
- Manual override
- Visual position Indicator
- CSA certified
- 1/2" NPT conduit connection
- CSA-NRTL /C and CE certified
- Temperature range: 0°F to 175°F

V300F_F B7A-420 3 - 8

V-Port ball valve with electric actuator, NEMA 7, 120vac

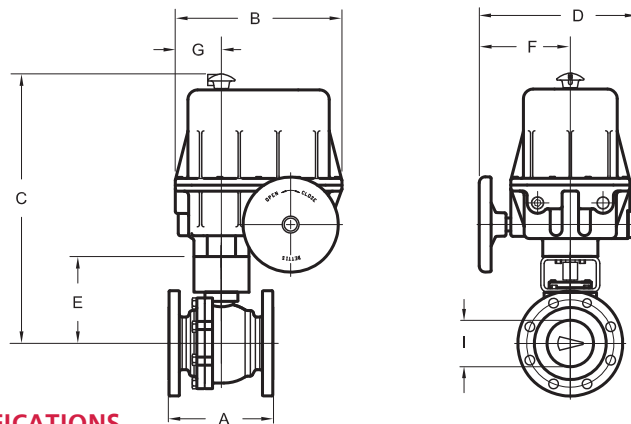
300# Flanged 2-pc body TFM seats

Actuators are sized for 150 psi pressure differential



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	C	D	E	F	G	I	Actuator	Wt.(lbs.)	Model No.
3"	11.12	8.25	16.11	6.25	6.67	3.12	3.75	3.00	EM500-30	83.0	JV300F * F ① B7A-420



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	C	D	E	F	G	I	Actuator	Wt.(lbs.)	Model No.
4"	12.00	14.00	23.72	13.31	8.40	7.62	3.88	4.00	EM810-30	346.0	KV300F * F ① B7A-420
6"	15.88	14.00	23.72	13.31	11.20	7.62	3.88	5.98	EM820-30	391.0	MV300F * F ① B7A-420
8"	19.75	14.00	23.72	13.31	11.60	7.62	3.88	7.87	EM840-48	541.0	NV300F * F ① B7A-420

Note: Dimensions "C" & "E" include a 3" high mounting bracket on 3" valve and a 4" high mounting bracket on 4" - 8" valves

*C = Carbon Stl Body, 316SS Trim

*S = 316SS Body & Trim

① Ball Drilling: (3) 30°, (6) 60°

V300 VALVE SPECIFICATIONS

- V300F Class 300
- Standard Steam Working Pressure: 300SWP
- Protected Seat Design
- Fire Safe Designed to API607-5
- Spiral Wound Body Gasket w/Secondary metal to metal seat
- Carbon Steel or Stainless Steel Body
- Seats: TFM
- Max Temp: TFM seats: 475°F

ELECTRIC ACTUATOR FEATURES

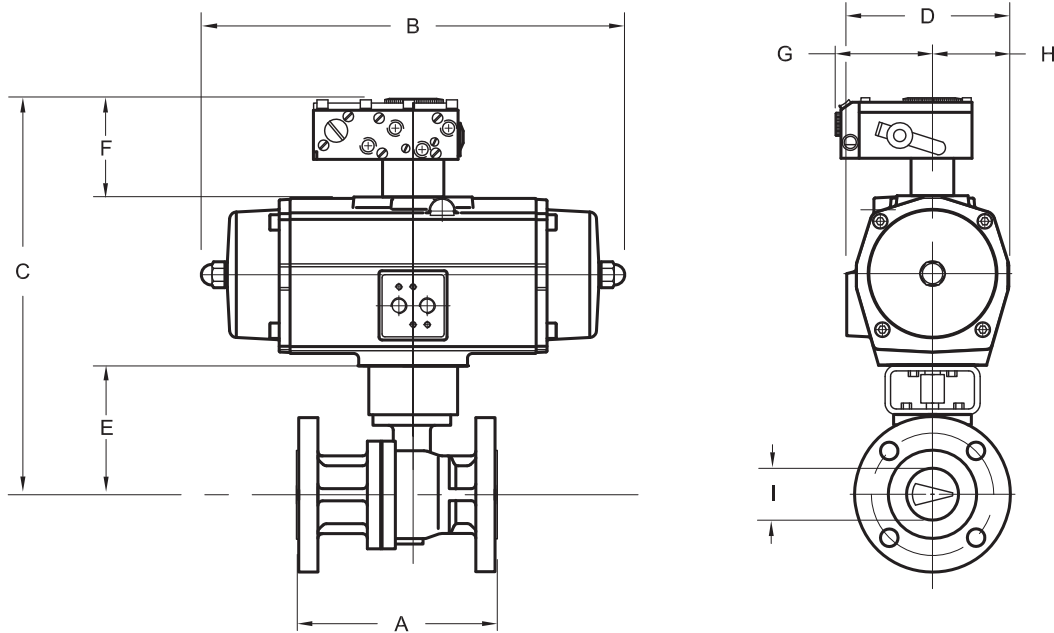
- B7 Series electric actuator
- NEMA 4, 4x, 7, & 9; CSA approved
- Weatherproof
- Class I Groups C and D, Div. 1
- Class II Groups E, F, & G
- (2) 1/2" NPT conduit entries
- Manual override
- Visual position Indicator
- CSA certified
- Temperature range: 0°F to 175°F

V300F_S ESR .5 - 2

V-Port ball valve with spring return pneumatic actuator & positioner

300# Flanged 2-pc body 50/50 Seats

Actuators are sized for 150 psi pressure differential



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	C	D	E	F	G	H	I	Actuator	Wt.(lbs.)	Model No.
80 psig Minimum Actuator Air Supply = 8S												
1/2"	5.50	8.03	12.29	3.78	4.54	4.09	3.50	1.70	.59	ES40	19.8	CV300F * S①E8S②③
3/4"	6.00	9.80	12.92	4.19	4.70	4.09	3.50	1.93	.79	ES65	24.4	DV300F * S①E8S②③
1"	6.50	9.80	13.28	4.19	5.06	4.09	3.50	1.93	.98	ES65	27.4	EV300F * S①E8S②③
1-1/2"	7.50	14.17	15.37	5.39	5.65	4.09	3.50	2.52	1.50	ES200	48.6	GV300F * S①E8S②③
2"	8.50	14.17	15.62	5.39	5.90	4.09	3.50	2.52	1.97	ES200	54.6	HV300F * S①E8S②③
60 psig Minimum Actuator Air Supply = 6S												
1/2"	5.50	9.80	12.76	4.19	4.54	4.09	3.50	1.93	.59	ES65	22.4	CV300F * S①E6S②③
3/4"	6.00	9.80	12.92	4.19	4.70	4.09	3.50	1.93	.79	ES65	24.4	DV300F * S①E6S②③
1"	6.50	9.80	13.28	4.19	5.06	4.09	3.50	1.93	.98	ES65	27.4	EV300F * S①E6S②③
1-1/2"	7.50	14.17	15.37	5.39	5.65	4.09	3.50	2.52	1.50	ES200	48.6	GV300F * S①E6S②③
2"	8.50	15.24	17.12	7.12	5.90	4.09	3.50	3.41	1.97	ES350	71.8	HV300F * S①E6S②③

Note: Dimensions "C" & "E" include a 3" high mounting bracket

*C = Carbon Stl Body, 316SS Trim

*S = 316SS Body & Trim

① Ball Drilling: (3) 30°, (6) 60°

② C=Fail Close, O=Fail Open

③ Positioner: P5, E5, E5XP

V300 VALVE SPECIFICATIONS

- V300F Class 300
- Standard Steam Working Pressure: 300SWP
- Protected Seat Design
- Fire Safe Designed to API607-5
- Spiral Wound Body Gasket w/Secondary metal to metal seat
- Carbon Steel or Stainless Steel Body
- Seats: 50/50
- Max Temp: 50/50 seats: 525°F

PNEUMATIC ACTUATOR FEATURES

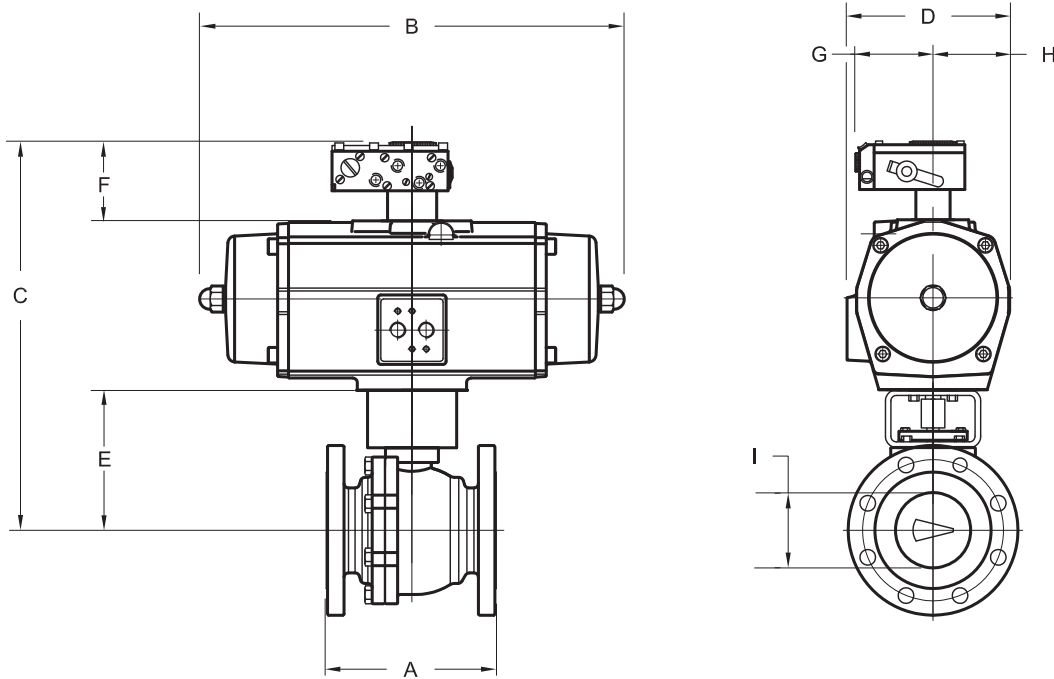
- E Series spring return rack and pinion pneumatic actuator
- Corrosion resistant coating
- NAMUR solenoid mounting pad, ISO 5211 mounting standard
- Visual position indicator
- High duty cycle, permanent lubrication
- Temperature range: -4°F to 175°F

V300F_S ESR 3 - 8

V-Port ball valve with spring return pneumatic actuator & positioner

300# Flanged 2-pc body 50/50 Seats

Actuators are sized for 150 psi pressure differential



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	C	D	E	F	G	H	I	Actuator	Wt.(lbs.)	Model No.
80 psig Minimum Actuator Air Supply = 8S												
3"	11.12	15.24	17.89	7.12	6.67	4.09	3.50	3.41	3.00	ES350	106.8	JV300F * S ①EBS ② ③
4"	12.00	20.35	23.08	9.51	8.40	4.48	3.50	4.54	4.00	ES950	192.6	KV300F * S ①EBS ② ③
6"	15.88	22.44	29.70	14.17	11.20	4.48	3.50	6.89	5.98	PS2500	429.5	MV300F * S ①EBS ② ③
8"	19.75	32.83	31.04	15.35	11.60	4.48	3.50	7.48	7.87	PS4000	676.5	NV300F * S ①EBS ② ③
60 psig Minimum Actuator Air Supply = 6S												
3"	11.12	18.78	19.81	8.52	6.67	4.48	3.50	4.08	3.00	ES600	130.3	JV300F * S ①E6S ② ③
4"	12.00	20.35	23.08	9.51	8.40	4.48	3.50	4.54	4.00	ES950	192.6	KV300F * S ①E6S ② ③
6"	15.88	22.44	29.70	14.17	11.20	4.48	3.50	6.89	5.98	PS2500	429.5	MV300F * S ①E6S ② ③
8"										N/A		

Note: Dimensions "C" & "E" include a 3" high mounting bracket on 3" valve and a 4" high mounting bracket on 4" - 8" valves

*C = Carbon Stl Body, 316SS Trim

*S = 316SS Body & Trim

① Ball Drilling: (3) 30°, (6) 60°

② C=Fail Close, O=Fail Open

③ Positioner: P5, E5, E5XP

V300 VALVE SPECIFICATIONS

- V300F Class 300
- Standard Steam Working Pressure: 300SWP
- Protected Seat Design
- Fire Safe Designed to API607-5
- Spiral Wound Body Gasket w/Secondary metal to metal seat
- Carbon Steel or Stainless Steel Body
- Seats: 50/50
- Max Temp: 50/50 seats: 525°F

PNEUMATIC ACTUATOR FEATURES

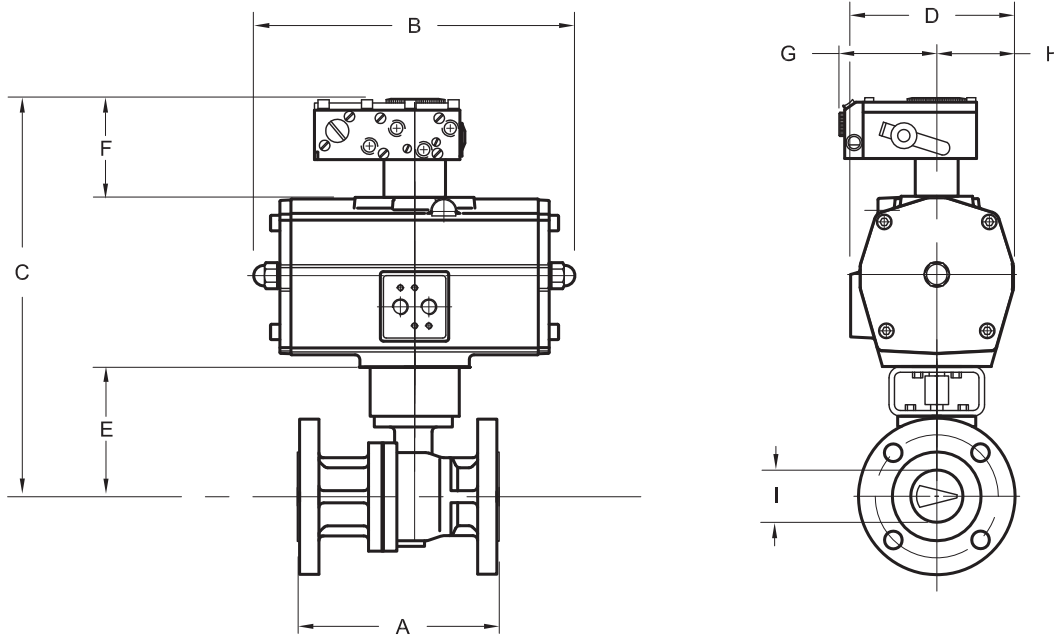
- E Series spring return rack and pinion pneumatic actuator
- Corrosion resistant coating
- NAMUR solenoid mounting pad, ISO 5211 mounting standard
- Visual position indicator
- High duty cycle, permanent lubrication
- Temperature range: -4°F to 175°F

V300F_S EDA .5 - 2

V-Port ball valve with double acting pneumatic actuator & positioner

300# Flanged 2-pc body 50/50 Seats

Actuators are sized for 150 psi pressure differential



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	C	D	E	F	G	H	I	Actuator	Wt.(lbs.)	Model No.
80 psig Minimum Actuator Air Supply = 8D												
1/2"	5.50	6.26	11.78	3.26	4.54	4.09	3.50	1.46	.59	ED25	17.4	CV300F * S①E8D ②
3/4"	6.00	6.26	11.94	3.26	4.70	4.09	3.50	1.46	.79	ED25	19.4	DV300F * S①E8D ②
1"	6.50	6.26	12.30	3.26	5.06	4.09	3.50	1.46	.98	ED25	22.4	EV300F * S①E8D ②
1-1/2"	7.50	7.83	13.87	4.19	5.65	4.09	3.50	1.93	1.50	ED65	33.8	GV300F * S①E8D ②
2"	8.50	7.83	14.12	4.19	5.90	4.09	3.50	1.93	1.97	ED65	39.8	HV300F * S①E8D ②
60 psig Minimum Actuator Air Supply = 6D												
1/2"	5.50	6.26	11.78	3.26	4.54	4.09	3.50	1.46	.59	ED25	17.4	CV300F * S①E6D ②
3/4"	6.00	6.26	11.94	3.26	4.70	4.09	3.50	1.46	.79	ED25	19.4	DV300F * S①E6D ②
1"	6.50	6.26	12.30	3.26	5.06	4.09	3.50	1.46	.98	ED25	22.4	EV300F * S①E6D ②
1-1/2"	7.50	7.83	13.40	4.19	5.65	4.09	3.50	1.93	1.50	ED65	33.8	GV300F * S①E6D ②
2"	8.50	8.70	14.64	4.60	5.90	4.09	3.50	2.12	1.97	ED100	41.3	HV300F * S①E6D ②

Note: Dimensions "C" & "E" include a 3" high mounting bracket

*C = Carbon Stl Body, 316SS Trim

*S = 316SS Body & Trim

① Ball Drilling: (3) 30°, (6) 60°

② Positioner: P5, E5, E5XP

V300 VALVE SPECIFICATIONS

- V300F Class 300
- Standard Steam Working Pressure: 300SWP
- Protected Seat Design
- Fire Safe Designed to API607-5
- Spiral Wound Body Gasket w/Secondary metal to metal seat
- Carbon Steel or Stainless Steel Body
- Seats: 50/50
- Max Temp: 50/50 seats: 525°F

PNEUMATIC ACTUATOR FEATURES

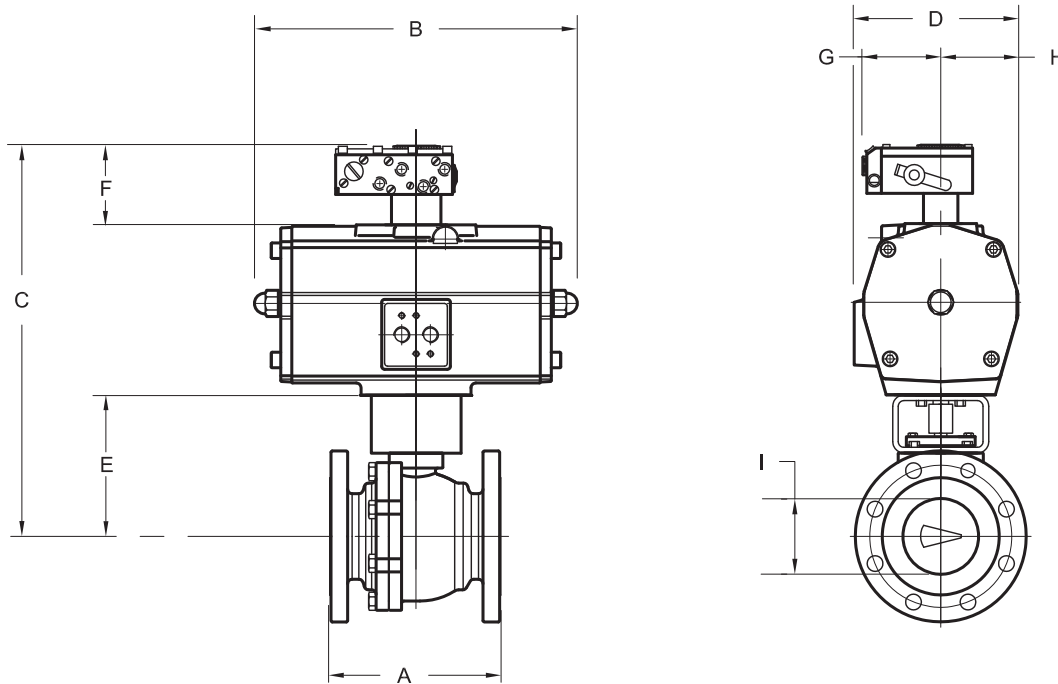
- E Series double acting rack and pinion pneumatic actuator
- Corrosion resistant coating
- NAMUR solenoid mounting pad, ISO 5211 mounting standard
- Visual position indicator
- High duty cycle, permanent lubrication
- Temperature range: -4°F to 175°F

V300F_S EDA 3 - 8

V-Port ball valve with double acting pneumatic actuator & positioner

300# Flanged 2-pc body 50/50 Seats

Actuators are sized for 150 psi pressure differential



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	C	D	E	F	G	H	I	Actuator	Wt.(lbs.)	Model No.
80 psig Minimum Actuator Air Supply = 8D												
3"	11.12	11.14	16.39	5.39	6.67	4.09	3.50	2.52	3.00	ED200	82.3	JV300F * S ①E8D ②
4"	12.00	12.01	19.62	7.12	8.40	4.09	3.50	3.41	4.00	ED350	130.4	KV300F * S ①E8D ②
6"	15.88	16.69	25.88	9.51	11.20	4.48	3.50	4.54	5.98	ED950	293.7	MV300F * S ①E8D ②
8"	19.75	20.31	27.77	10.81	11.60	4.48	3.50	5.21	7.87	ED1600	479.6	NV300F * S ①E8D ②
60 psig Minimum Actuator Air Supply = 6D												
3"	11.12	11.14	16.39	5.39	6.67	4.09	3.50	2.52	3.00	ED200	82.3	JV300F * S ①E6D ②
4"	12.00	12.01	19.62	7.12	8.40	4.09	3.50	3.41	4.00	ED350	130.4	KV300F * S ①E6D ②
6"	15.88	20.31	27.37	10.81	11.20	4.48	3.50	5.21	5.98	ED1600	329.6	MV300F * S ①E6D ②
8"	19.75	14.88	30.10	14.17	11.60	4.48	3.50	6.89	7.87	PD2500	510.5	MV300F * S ①E6D ②

Note: Dimensions "C " & "E" include a 3" high mounting bracket on 3" valve and a 4" high mounting bracket on 4" - 8" valves

*C = Carbon Stl Body, 316SS Trim

*S = 316SS Body & Trim

① Ball Drilling: (3) 30°, (6) 60°

② Positioner: P5, E5, E5XP

V300 VALVE SPECIFICATIONS

- V300F Class 300
- Standard Steam Working Pressure: 300SWP
- Protected Seat Design
- Fire Safe Designed to API607-5
- Spiral Wound Body Gasket w/Secondary metal to metal seat
- Carbon Steel or Stainless Steel Body
- Seats: 50/50
- Max Temp: 50/50 seats: 525°F

PNEUMATIC ACTUATOR FEATURES

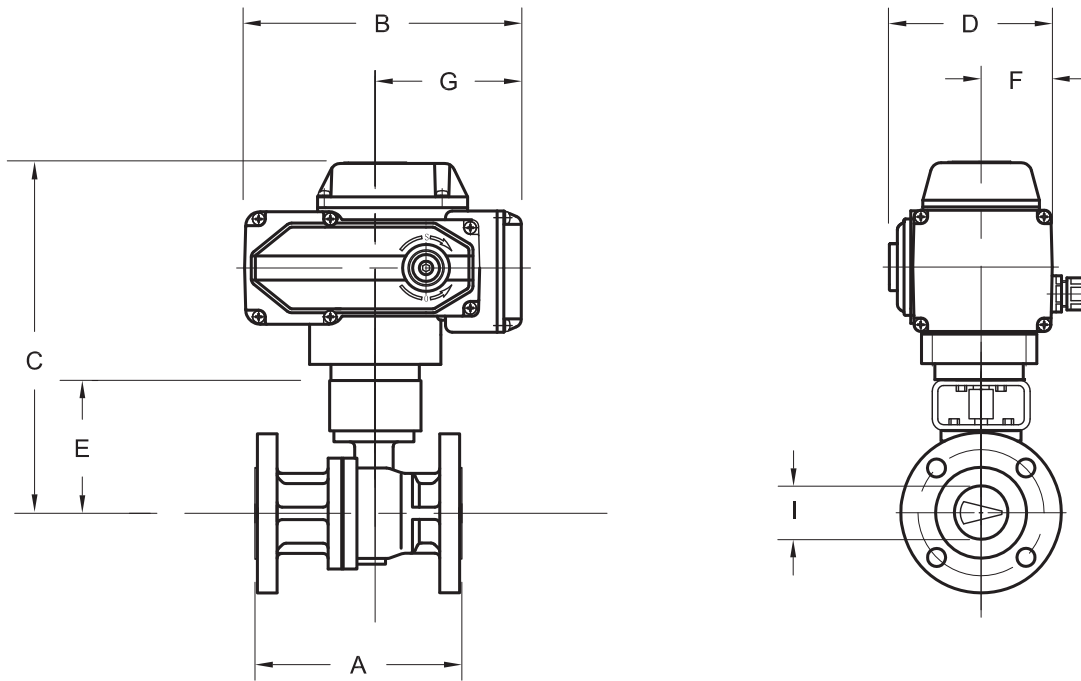
- E Series double acting rack and pinion pneumatic actuator
- Corrosion resistant coating
- NAMUR solenoid mounting pad, ISO 5211 mounting standard
- Visual position indicator
- High duty cycle, permanent lubrication
- Temperature range: -4°F to 175°F

V300F_S K4A-P420 .5 - 2

V-Port ball valve with electric actuator for throttling service

300# Flanged 2-pc body 50/50 Seats

Actuators are sized for 150 psi pressure differential



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	C	D	E	F	G	I	Actuator	Wt.(lbs.)	Model No.
1/2"	5.50	6.24	9.25	4.51	4.54	2.00	2.99	.59	Nucom Z	15.0	CV300F * S ① K4A-P420
3/4"	6.00	6.24	9.37	4.51	4.66	2.00	2.99	.79	Nucom Z	17.0	DV300F * S ① K4A-P420
1"	6.50	6.24	9.76	4.51	5.05	2.00	2.99	.98	Nucom Z	20.0	EV300F * S ① K4A-P420
1-1/2"	7.50	10.10	12.93	4.82	5.65	2.46	6.16	1.50	Nucom-10NM/30	42.0	GV300F * S ① K4A-P420
2"	8.50	10.10	13.18	6.16	5.90	2.46	6.16	1.97	Nucom-10NM/30	48.0	HV300F * S ① K4A-P420

Note: Dimensions "C" & "E" include a 3" high mounting bracket

*C = Carbon Stl Body, 316SS Trim

*S = 316SS Body & Trim

① Ball Drilling: (3) 30°, (6) 60°

V300 VALVE SPECIFICATIONS

- V300F Class 300
- Standard Steam Working Pressure: 300SWP
- Protected Seat Design
- Fire Safe Designed to API607-5
- Spiral Wound Body Gasket w/Secondary metal to metal seat
- Carbon Steel or Stainless Steel Body
- Seats: 50/50
- Max Temp: 50/50 seats: 525°F

ELECTRIC ACTUATOR FEATURES

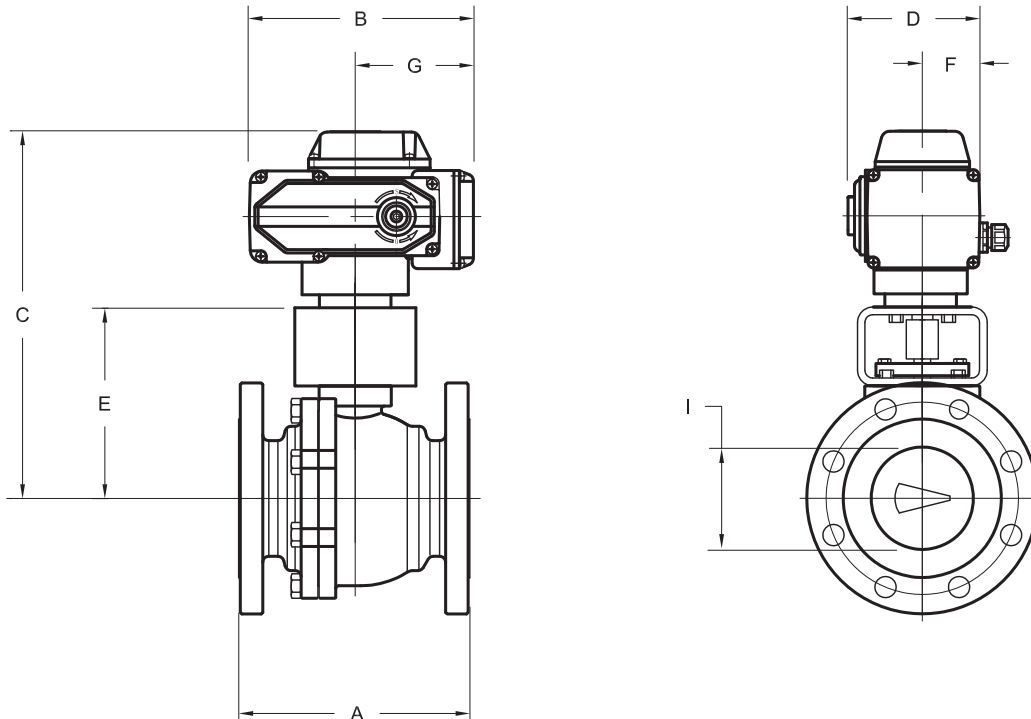
- K Series electric actuator
- Actuator speed: 25 sec.
- Most voltages available
- Quarter turn: 0-90° rotation
- NEMA 4/4X certified by UL labs
- ISO 5211 mounting standard
- Visual position indicator
- Self-locking drive train
- Mounts in any direction
- 1/2" NPT conduit connection
- CSA-NRTL /C and CE certified
- Temperature range: 0°F to 160°F

V300F_S K4A-P420 3 - 8

V-Port ball valve with electric actuator for throttling service

300# Flanged 2-pc body 50/50 Seats

Actuators are sized for 150 psi pressure differential



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	C	D	E	F	G	I	Actuator	Wt.(lbs.)	Model No.
3"	11.12	10.10	13.95	6.16	6.67	2.46	5.25	3.00	Nucom-10NM/30	65.5	JV300F * S ① K4A-P420
4"	12.00	15.00	17.61	9.53	8.40	4.13	7.85	4.00	Nucom-10NL/150	147.0	KV300F * S ① K4A-P420
6"	15.88	15.00	20.41	9.53	11.20	4.13	7.85	5.98	Nucom-10NL/100	219.0	MV300F * S ① K4A-P420
8"	19.75	15.00	20.81	9.53	11.60	4.13	7.85	7.87	Nucom-10NL/200	316.0	NV300F * S ① K4A-P420

Note: Dimensions "C" & "E" include a 3" high mounting bracket on 3" valve and a 4" high mounting bracket on 4" - 8" valves

*C = Carbon Stl Body, 316SS Trim

*S = 316SS Body & Trim

① Ball Drilling: (3) 30°, (6) 60°

V300 VALVE SPECIFICATIONS

- V300F Class 300
- Standard Steam Working Pressure: 300SWP
- Protected Seat Design
- Fire Safe Designed to API607-5
- Spiral Wound Body Gasket w/Secondary metal to metal seat
- Carbon Steel or Stainless Steel Body
- Seats: 50/50
- Max Temp: 50/50 seats: 525°F

ELECTRIC ACTUATOR FEATURES

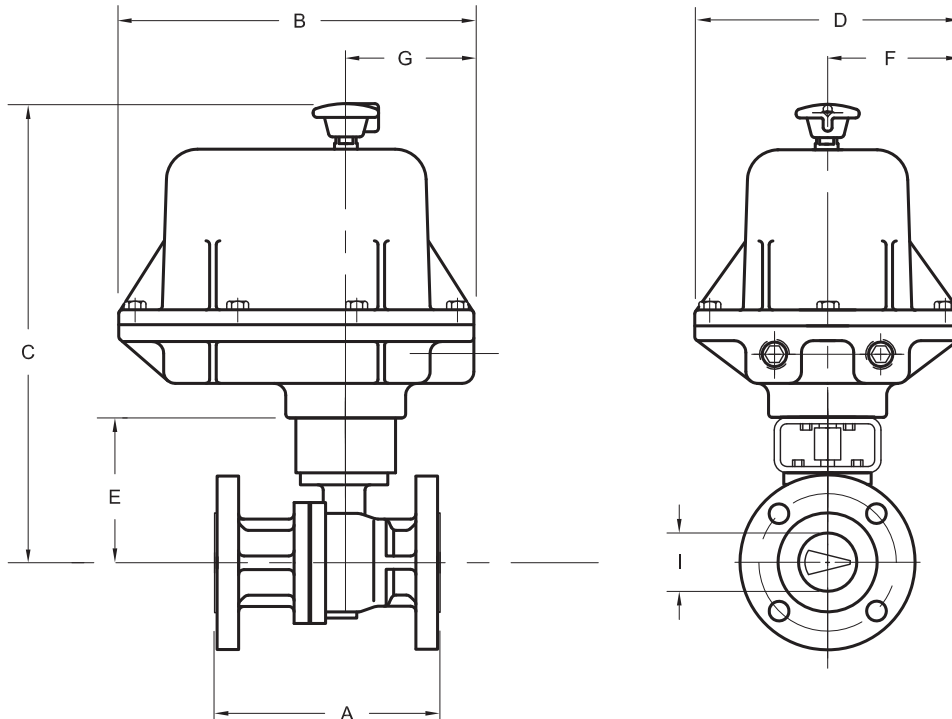
- K Series electric actuator
- Actuator speed: 25 sec.
- Most voltages available
- Quarter turn: 0-90° rotation
- NEMA 4/4X certified by UL labs
- ISO 5211 mounting standard
- Visual position indicator
- Self-locking drive train
- Mounts in any direction
- 1/2" NPT conduit connection
- CSA-NRTL /C and CE certified
- Temperature range: 0°F to 160°F

V300F_S B7A-420 .5 - 1.5

V-Port ball valve with electric actuator, NEMA 7, 120vac

150# Flanged 2-pc body 50/50 seats

Actuators are sized for 150 psi pressure differential



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	C	D	E	F	G	I	Actuator	Wt.(lbs.)	Model No.
1/2"	5.50	8.25	12.04	6.25	4.54	3.12	3.75	.59	EM310-30	28.0	CV300F * S ① B7A-420
3/4"	6.00	8.25	12.16	6.25	4.66	3.12	3.75	.79	EM310-30	30.0	DV300F * S ① B7A-420
1"	6.50	8.25	12.55	6.25	5.05	3.12	3.75	.98	EM310-30	33.0	EV300F * S ① B7A-420
1-1/2"	7.50	8.25	13.10	6.25	5.60	3.12	3.75	1.50	EM310-30	42.0	GV300F * S ① B7A-420

Note: Dimensions "C" & "E" include a 3" high mounting bracket

*C = Carbon Stl Body, 316SS Trim

*S = 316SS Body & Trim

① Ball Drilling: (3) 30°, (6) 60°

V300 VALVE SPECIFICATIONS

- V300F Class 300
- Standard Steam Working Pressure: 300SWP
- Protected Seat Design
- Fire Safe Designed to API607-5
- Spiral Wound Body Gasket w/Secondary metal to metal seat
- Carbon Steel or Stainless Steel Body
- Seats: 50/50
- Max Temp: 50/50 seats: 525°F

ELECTRIC ACTUATOR FEATURES

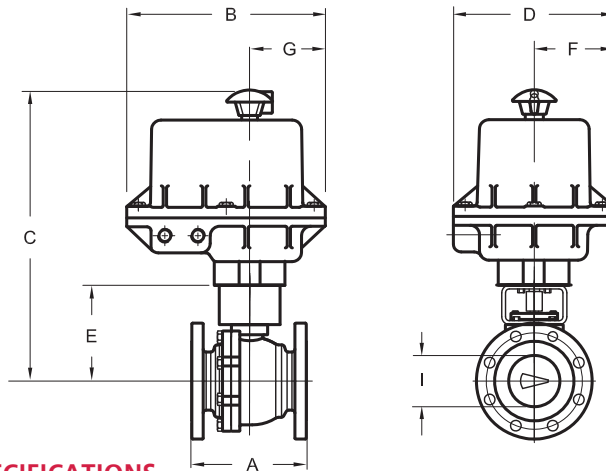
- B7 Series electric actuator
- NEMA 4, 4x, 7, & 9; CSA approved
- Weatherproof
- Class I Groups C and D, Div. 1
- Class II Groups E, F, & G
- (2) 1/2" NPT conduit entries
- Manual override
- Visual position Indicator
- CSA certified
- Temperature range: 0°F to 175°F

V300F_S B7A-420 2 - 8

V-Port ball valve with electric actuator, NEMA 7, 120vac

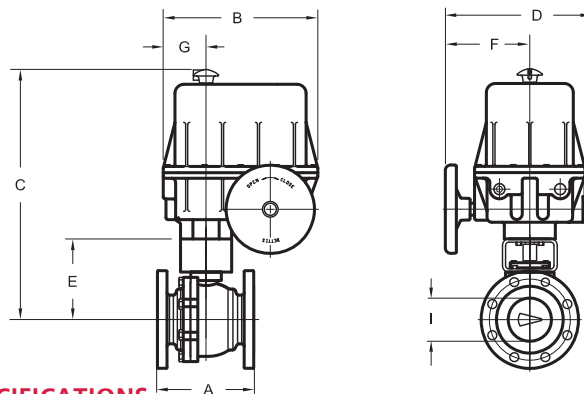
300# Flanged 2-pc body 50/50 seats

Actuators are sized for 150 psi pressure differential



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	C	D	E	F	G	I	Actuator	Wt.(lbs.)	Model No.
2"	8.50	8.25	15.34	6.25	5.90	3.12	3.75	1.97	EM500-15	48.0	HV300F * S ① B7A-420
3"	11.12	8.25	16.11	6.25	6.67	3.12	3.75	3.00	EM500-30	83.0	JV300F * S ① B7A-420



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	C	D	E	F	G	I	Actuator	Wt.(lbs.)	Model No.
4"	12.00	14.00	23.72	13.31	8.40	7.62	3.88	4.00	EM810-30	346.0	KV300F * S ① B7A-420
6"	15.88	14.00	23.72	13.31	11.20	7.62	3.88	5.98	EM830-30	391.0	MV300F * S ① B7A-420
8"	19.75	14.00	23.72	13.31	11.60	7.62	3.88	7.87	EM840-72	541.0	NV300F * S ① B7A-420

Note: Dimensions "C " & "E" include a 3" high mounting bracket on 2" & 3" valve and a 4" high mounting bracket on 4 - 8" valves

*C = Carbon Stl Body, 316SS Trim

*S = 316SS Body & Trim

① Ball Drilling: (3) 30°, (6) 60°

V300 VALVE SPECIFICATIONS

- V300F Class 300
- Standard Steam Working Pressure: 300SWP
- Protected Seat Design
- Fire Safe Designed to API607-5
- Spiral Wound Body Gasket w/Secondary metal to metal seat
- Carbon Steel or Stainless Steel Body
- Seats: 50/50
- Max Temp: 50/50 seats: 525°F

ELECTRIC ACTUATOR FEATURES

- B7 Series electric actuator
- NEMA 4, 4x, 7, & 9; CSA approved
- Weatherproof
- Class I Groups C and D, Div. 1
- Class II Groups E, F, & G
- (2) 1/2" NPT conduit entries
- Manual override
- Visual position Indicator
- CSA certified
- Temperature range: 0°F to 175°F

31D Series

Brass 3-way Standard Port Ball Valve



The 31D is a 3-way, brass ball valve. It can be equipped with a manual handle or with direct mount pneumatic or electric actuators. The direct mount actuators eliminate the valve-actuator mounting kit, which adds unnecessary height and expense.

A full range of accessory items are available including limit switches, solenoid valves, positioners and manual override devices.

FEATURES

- Standard port.
- Blow-out proof stem.
- Integrated mounting pad for actuators.
- Compact assembly.
- Complete line of accessories.

ACTUATOR CONFIGURATIONS

- Electric.
- Pneumatic (spring return).
- Pneumatic (double acting).
- Manual handle.

PRESSURE RANGE

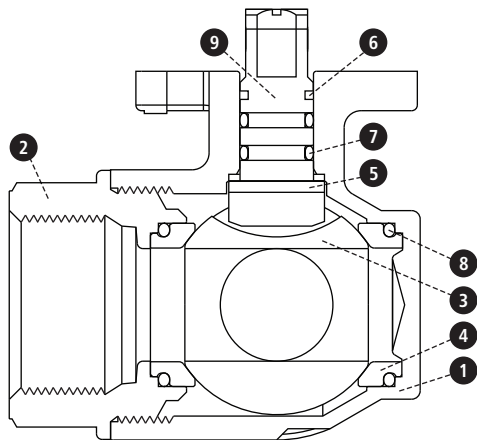
29 inHg vacuum to 400 PSI

TEMPERATURE RANGE

-30°F to 320°F

TYPICAL APPLICATIONS

- Air drying equipment.
- Pollution control equipment.
- Process control applications.
- Laundry equipment.
- Textile dyeing and drying.
- Bottling and dispensing.



PORT ARRANGEMENTS

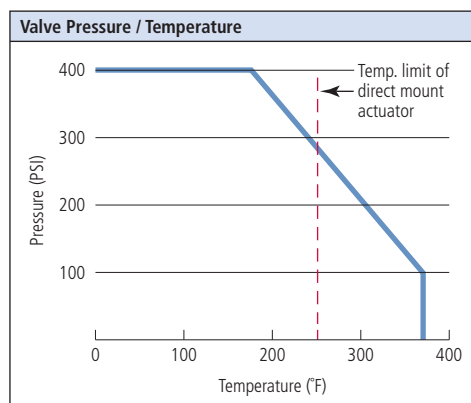
L Port		T Port			
Flow Plan A	Flow Plan D	Flow Plan E	Flow Plan F	Flow Plan G	
Pos1 Pos2	Pos1 Pos2	Pos1 Pos2	Pos1 Pos2	Pos1 Pos2	

MATERIALS OF CONSTRUCTION

Part	Qty.	Description	Standard Material
1	1	Body	Brass CW 617 NUNI EN 12165
2	3	End Cap	Brass CW 617 NUNI EN 12165
3	1	Ball	Brass CW 617 NUNI EN 12165
4	4	Seat	PTFE
5	1	Thrust Washer	PTFE
6	1	Stem Seal	PTFE
7	2	Stem O-Ring	FKM (Viton®)
8	4	Body O-Ring	FKM (Viton®)
9	1	Stem	Brass CW 614 NUNI EN 12164

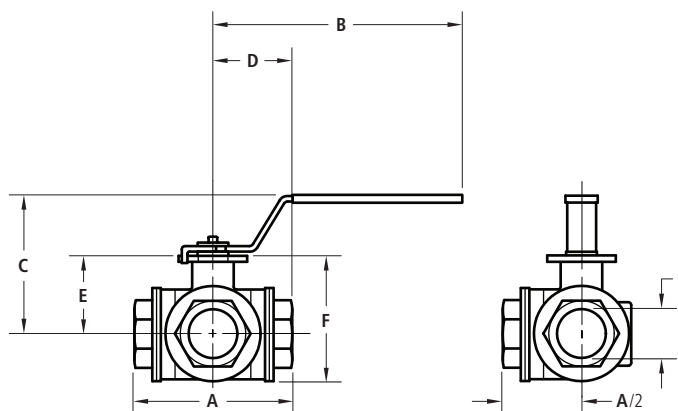
CV FACTORS

Size	CV
1/4"	3.5
3/8"	4.0
1/2"	5.0
3/4"	7.7
1"	14
1-1/4"	19
1-1/2"	31
2"	44



31DXM Series

Brass 3-way standard port ball valve with manual handle
 (Threaded end connection)



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	C	D	E	F	I	Wt. (lbs.)	Model No.
1/4"	2.64	4.72	2.44	1.32	1.20	1.98	.39	1.2	A31DØXM
3/8"	2.64	4.72	2.44	1.32	1.20	2.04	.43	1.2	B31DØXM
1/2"	2.87	4.72	2.44	1.43	1.20	2.15	.43	1.2	C31DØXM
3/4"	3.19	4.72	2.52	1.59	1.29	2.64	.59	1.4	D31DØXM
1"	3.74	6.69	2.95	1.87	1.63	2.80	.79	2.8	E31DØXM
1-1/4"	4.39	6.69	3.17	2.19	1.85	3.35	.98	4.2	F31DØXM
1-1/2"	4.86	6.69	3.56	2.43	2.34	3.95	1.26	8.0	G31DØXM
2"	5.73	9.05	4.43	2.86	2.90	4.65	1.57	9.1	H31DØXM
2-1/2"	6.93	9.05	4.86	3.46	3.35	5.54	1.95	16.3	I31DØXM
3"	7.08	9.05	4.86	3.54	3.35	5.58	1.95	19.6	J31DØXM

© Flow Plan: A, D, E, F, G (see Port Arrangements diagram).

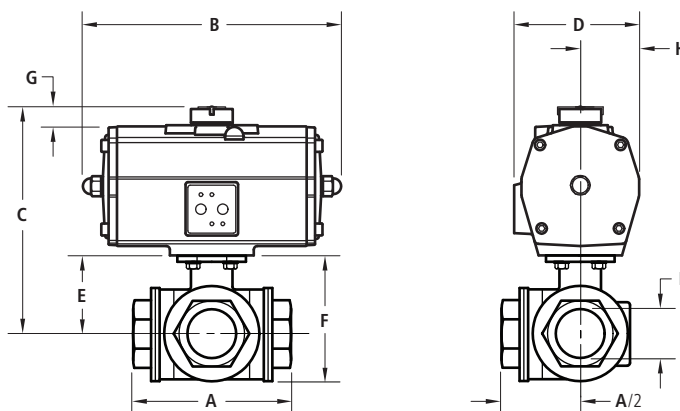
31D VALVE FEATURES

- Standard port brass body, ball and blow out proof stem.
- 3-way valve with forged body and NPT threaded end connection.
- Mounting pad for direct mount.
- PTFE seats and seals.
- Temperature range: -30°F to 320°F.
- Pressure range: 29 inHg vacuum to 400 PSI.

31DXEDA Series

Brass 3-way standard port ball valve with double acting pneumatic actuator

(Threaded end connection, actuators are sized for 400 PSI pressure differential)



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	C	D	E	F	G	H	I	Actuator	Wt. (lbs.)	Model No.
80 PSI Minimum Actuator Air Supply = 8D												
1/4"	2.64	6.26	5.14	3.26	1.20	1.98	.79	1.46	.39	ED25	4.1	A31D○XE8D
3/8"	2.64	6.26	5.14	3.26	1.20	2.04	.79	1.46	.43	ED25	4.1	B31D○XE8D
1/2"	2.87	6.26	5.14	3.26	1.20	2.15	.79	1.46	.43	ED25	4.1	C31D○XE8D
3/4"	3.19	6.26	5.23	3.26	1.29	2.64	.79	1.46	.59	ED25	4.3	D31D○XE8D
1"	3.74	6.26	5.57	3.26	1.63	2.80	.79	1.46	.79	ED25	5.5	E31D○XE8D
1-1/4"	4.39	6.26	5.79	3.26	1.85	3.35	.79	1.46	.98	ED25	7.1	F31D○XE8D
1-1/2"	4.86	7.09	6.79	3.78	2.34	3.95	.79	1.70	1.26	ED40	10.0	G31D○XE8D
2"	5.73	7.83	7.82	4.19	2.90	4.65	.79	1.93	1.57	ED65	14.4	H31D○XE8D
2-1/2"	6.93	7.83	8.27	4.19	3.35	5.54	.79	1.93	1.95	ED65	21.6	I31D○XE8D
3"	7.08	7.83	8.27	4.19	3.35	5.58	.79	1.93	1.95	ED65	24.9	J31D○XE8D
60 PSI Minimum Actuator Air Supply = 6D												
1/4"	2.64	6.26	5.14	3.26	1.20	1.98	.79	1.46	.39	ED25	4.1	A31D○XE6D
3/8"	2.64	6.26	5.14	3.26	1.20	2.04	.79	1.46	.43	ED25	4.1	B31D○XE6D
1/2"	2.87	6.26	5.14	3.26	1.20	2.15	.79	1.46	.43	ED25	4.1	C31D○XE6D
3/4"	3.19	6.26	5.23	3.26	1.29	2.64	.79	1.46	.59	ED25	4.3	D31D○XE6D
1"	3.74	7.09	6.08	3.78	1.63	2.80	.79	1.70	.79	ED40	6.6	E31D○XE6D
1-1/4"	4.39	7.09	6.30	3.78	1.85	3.35	.79	1.70	.98	ED40	8.2	F31D○XE6D
1-1/2"	4.86	7.09	6.79	3.78	2.34	3.95	.79	1.70	1.26	ED40	10.0	G31D○XE6D
2"	5.73	7.83	7.82	4.19	2.90	4.65	.79	1.93	1.57	ED65	14.4	H31D○XE6D
2-1/2"	6.93	8.70	8.79	4.60	3.35	5.54	.79	2.12	1.95	ED100	23.1	I31D○XE6D
3"	7.08	8.70	8.79	4.60	3.35	5.58	.79	2.12	1.95	ED100	26.4	J31D○XE6D

© Flow Plan: A, D, E, F, G (see Port Arrangements diagram).

31D VALVE FEATURES

- Standard port brass body, ball and blow out proof stem.
- 3-way valve with forged body and NPT threaded end connection.
- Mounting pad for direct mount.
- PTFE seats and seals.
- Temperature range: -30°F to 320°F.
- Pressure range: 29 inHg vacuum to 400 PSI.

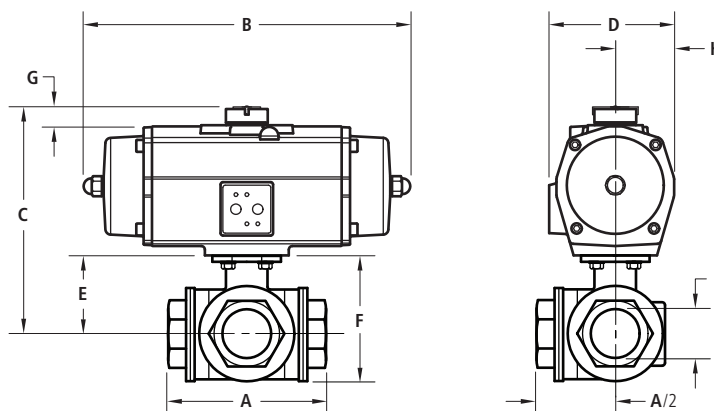
PNEUMATIC ACTUATOR FEATURES

- E Series double acting rack and pinion actuator.
- Corrosion resistant coating.
- NAMUR solenoid mounting pad, ISO 5211 mounting standard.
- Visual position indicators.
- High duty cycle, permanent lubrication.
- Temperature range: -4°F to 175°F.

31DXESR Series

Brass 3-way standard port ball valve with spring return pneumatic actuator

(Threaded end connection, actuators are sized for 400 PSI pressure differential)



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	C	D	E	F	G	H	I	Actuator	Wt. (lbs.)	Model No.
80 PSI Minimum Actuator Air Supply = 85												
1/4"	2.64	6.77	5.14	3.26	1.20	1.98	.79	1.46	.39	ES25	4.9	A31D○XE8S
3/8"	2.64	6.77	5.14	3.26	1.20	2.04	.79	1.46	.43	ES25	4.9	B31D○XE8S
1/2"	2.87	6.77	5.14	3.26	1.20	2.15	.79	1.46	.43	ES25	4.9	C31D○XE8S
3/4"	3.19	9.80	6.21	4.19	1.29	2.64	.79	1.93	.59	ES65	9.3	D31D○XE8S
1"	3.74	9.80	6.55	4.19	1.63	2.80	.79	1.93	.79	ES65	10.5	E31D○XE8S
1-1/4"	4.39	9.80	6.77	4.19	1.85	3.35	.79	1.93	.98	ES65	12.1	F31D○XE8S
1-1/2"	4.86	10.51	7.78	4.60	2.34	3.95	.79	2.12	1.26	ES100	16.1	G31D○XE8S
2"	5.73	10.51	8.34	4.60	2.90	4.65	.79	2.12	1.57	ES100	19.2	H31D○XE8S
2-1/2"	6.93	14.17	9.77	5.39	3.35	5.54	.79	2.52	1.95	ES200	36.4	I31D○XE8S
3"	7.08	14.17	9.77	5.39	3.35	5.58	.79	2.52	1.95	ES200	39.7	J31D○XE8S
60 PSI Minimum Actuator Air Supply = 65												
1/4"	2.64	6.77	5.14	3.26	1.20	1.98	.79	1.46	.39	ES25-3	4.9	A31D○XE6S
3/8"	2.64	6.77	5.14	3.26	1.20	2.04	.79	1.46	.43	ES25-3	4.9	B31D○XE6S
1/2"	2.87	6.77	5.14	3.26	1.20	2.15	.79	1.46	.43	ES25-3	4.9	C31D○XE6S
3/4"	3.19	9.80	6.21	4.19	1.29	2.64	.79	1.93	.59	ES65-3	9.3	D31D○XE6S
1"	3.74	9.80	6.55	4.19	1.63	2.80	.79	1.93	.79	ES65-3	10.5	E31D○XE6S
1-1/4"	4.39	9.80	6.77	4.19	1.85	3.35	.79	1.93	.98	ES65-3	12.1	F31D○XE6S
1-1/2"	4.86	14.17	8.76	5.39	2.34	3.95	.79	2.52	1.26	ES200-3	26.1	G31D○XE6S
2"	5.73	14.17	9.32	5.39	2.90	4.65	.79	2.52	1.57	ES200-3	29.2	H31D○XE6S
2-1/2"	6.93	14.17	9.77	5.39	3.35	5.54	.79	2.52	1.95	ES200-3	36.4	I31D○XE6S
3"	7.08	14.17	9.77	5.39	3.35	5.58	.79	2.52	1.95	ES200-3	39.7	J31D○XE6S

© Flow Plan: A, D, E, F, G (see Port Arrangements diagram).

31D VALVE FEATURES

- Standard port brass body, ball and blow out proof stem.
- 3-way valve with forged body and NPT threaded end connection.
- Mounting pad for direct mount.
- PTFE seats and seals.
- Temperature range: -30°F to 320°F.
- Pressure range: 29 inHg vacuum to 400 PSI.

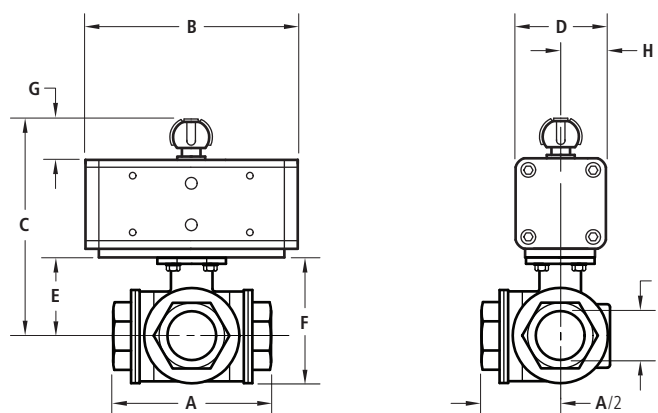
PNEUMATIC ACTUATOR FEATURES

- E Series spring return rack and pinion actuator.
- Corrosion resistant coating.
- NAMUR solenoid mounting pad, ISO 5211 mounting standard.
- Visual position indicators.
- High duty cycle, permanent lubrication.
- Temperature range: -4°F to 175°F.

31DXODA Series

Brass 3-way standard port ball valve with double acting pneumatic actuator

(Threaded end connection, actuators are sized for 400 PSI pressure differential)



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	C	D	E	F	G	H	I	Actuator	Wt. (lbs.)	Model No.
80 PSI Minimum Actuator Air Supply = 8D												
1/4"	2.64	2.76	3.47	1.70	1.20	1.98	.59	.85	.39	PD008	1.9	A31D○X08D
3/8"	2.64	2.76	3.47	1.70	1.20	2.04	.59	.85	.43	PD008	1.9	B31D○X08D
1/2"	2.87	2.76	3.47	1.70	1.20	2.15	.59	.85	.43	PD008	1.9	C31D○X08D
3/4"	3.19	5.12	4.44	2.16	1.29	2.64	.79	1.05	.59	PD030	3.6	D31D○X08D
1"	3.74	5.98	5.17	2.56	1.63	2.80	.79	1.28	.79	PD060	6.0	E31D○X08D
1-1/4"	4.39	5.98	5.39	2.56	1.85	3.35	.79	1.28	.98	PD060	7.6	F31D○X08D
1-1/2"	4.86	5.98	5.88	2.56	2.34	3.95	.79	1.28	1.26	PD060	9.4	G31D○X08D
2"	5.73	6.65	6.74	2.83	2.90	4.65	.79	1.41	1.57	PD090	13.2	H31D○X08D
2-1/2"	6.93	6.65	7.19	2.83	3.35	5.54	.79	1.41	1.95	PD090	20.4	I31D○X08D
3"	7.08	6.65	7.19	2.83	3.35	5.58	.79	1.41	1.95	PD090	23.7	J31D○X08D
60 PSI Minimum Actuator Air Supply = 6D												
1/4"	2.64	2.76	3.47	1.70	1.20	1.98	.59	.85	.39	PD008	1.9	A31D○X06D
3/8"	2.64	2.76	3.47	1.70	1.20	2.04	.59	.85	.43	PD008	1.9	B31D○X06D
1/2"	2.87	2.76	3.47	1.70	1.20	2.15	.59	.85	.43	PD008	1.9	C31D○X06D
3/4"	3.19	5.12	4.44	2.16	1.29	2.64	.79	1.05	.59	PD030	3.6	D31D○X06D
1"	3.74	5.98	5.17	2.56	1.63	2.80	.79	1.28	.79	PD060	6.0	E31D○X06D
1-1/4"	4.39	5.98	5.39	2.56	1.85	3.35	.79	1.28	.98	PD060	7.6	F31D○X06D
1-1/2"	4.86	5.98	5.88	2.56	2.34	3.95	.79	1.28	1.26	PD060	9.4	G31D○X06D
2"	5.73	6.65	6.74	2.83	2.90	4.65	.79	1.41	1.57	PD090	13.2	H31D○X06D
2-1/2"	6.93	7.24	7.19	3.15	3.35	5.54	1.18	1.57	1.95	PD120	22.5	I31D○X06D
3"	7.08	7.24	7.19	3.15	3.35	5.58	1.18	1.57	1.95	PD120	25.8	J31D○X06D

© Flow Plan: A, D, E, F, G (see Port Arrangements diagram).

31D VALVE FEATURES

- Standard port brass body, ball and blow out proof stem.
- 3-way valve with forged body and NPT threaded end connection.
- Mounting pad for direct mount.
- PTFE seats and seals.
- Temperature range: -30°F to 320°F.
- Pressure range: 29 inHg vacuum to 400 PSI.

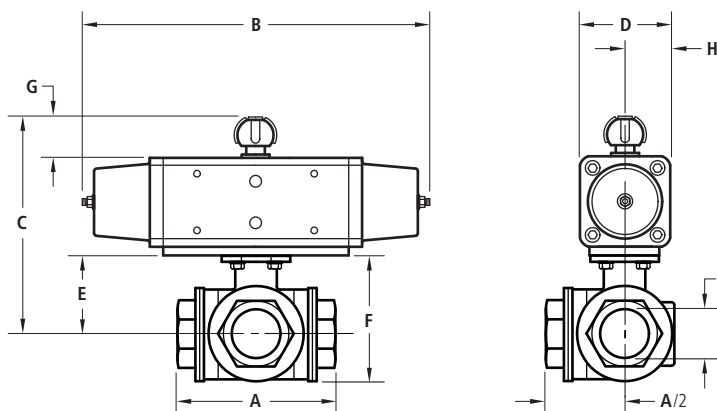
PNEUMATIC ACTUATOR FEATURES

- O Series double acting pneumatic actuator.
- Corrosion resistant coating.
- NAMUR solenoid mounting pad, ISO 5211 mounting standard.
- Visual position indicators.
- High duty cycle, permanent lubrication.
- Temperature range: -4°F to 175°F.

31DXOSR Series

Brass 3-way standard port ball valve with spring return pneumatic actuator

(Threaded end connection, actuators are sized for 400 PSI pressure differential)



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	C	D	E	F	G	H	I	Actuator	Wt. (lbs.)	Model No.
80 PSI Minimum Actuator Air Supply = 85												
1/4"	2.64	8.71	4.43	2.17	1.20	1.98	.79	1.08	.39	PS015	4.1	A31D○X08S
3/8"	2.64	8.71	4.43	2.17	1.20	2.04	.79	1.08	.43	PS015	4.1	B31D○X08S
1/2"	2.87	8.71	4.43	2.17	1.20	2.15	.79	1.08	.43	PS015	4.1	C31D○X08S
3/4"	3.19	9.45	4.83	2.56	1.29	2.64	.79	1.28	.59	PS030	5.8	D31D○X08S
1"	3.74	11.58	5.47	2.83	1.63	2.80	.79	1.41	.79	PS045	7.9	E31D○X08S
1-1/4"	4.39	11.58	5.69	2.83	1.85	3.35	.79	1.41	.98	PS045	9.5	F31D○X08S
1-1/2"	4.86	12.60	6.90	3.15	2.34	3.95	1.18	1.57	1.26	PS060	13.7	G31D○X08S
2"	5.73	14.06	7.86	3.54	2.90	4.65	1.18	1.77	1.57	PS090	19.2	H31D○X08S
2-1/2"	6.93	14.06	8.31	3.54	3.35	5.54	1.18	1.77	1.95	PS090	26.4	I31D○X08S
3"	7.08	14.65	8.70	3.94	3.35	5.58	1.18	1.97	1.95	PS120	34.3	J31D○X08S
60 PSI Minimum Actuator Air Supply = 65												
1/4"	2.64	8.71	4.43	2.17	1.20	1.98	.79	1.08	.39	PS015	4.1	A31D○X06S
3/8"	2.64	8.71	4.43	2.17	1.20	2.04	.79	1.08	.43	PS015	4.1	B31D○X06S
1/2"	2.87	8.71	4.43	2.17	1.20	2.15	.79	1.08	.43	PS015	4.1	C31D○X06S
3/4"	3.19	9.45	4.83	2.56	1.29	2.64	.79	1.28	.59	PS030	5.8	D31D○X06S
1"	3.74	11.58	5.47	2.83	1.63	2.80	.79	1.41	.79	PS045	7.9	E31D○X06S
1-1/4"	4.39	11.58	5.69	2.83	1.85	3.35	.79	1.41	.98	PS045	9.5	F31D○X06S
1-1/2"	4.86	12.60	6.90	3.15	2.34	3.95	1.18	1.57	1.26	PS060	13.7	G31D○X06S
2"	5.73	14.06	7.86	3.54	2.90	4.65	1.18	1.77	1.57	PS090	19.2	H31D○X06S
2-1/2"	6.93	14.65	8.70	3.94	3.35	5.54	1.18	1.97	1.95	PS120	31.0	I31D○X06S
3"	7.08	14.65	8.70	3.94	3.35	5.58	1.18	1.97	1.95	PS120	34.3	J31D○X06S

© Flow Plan: A, D, E, F, G (see Port Arrangements diagram).

31D VALVE FEATURES

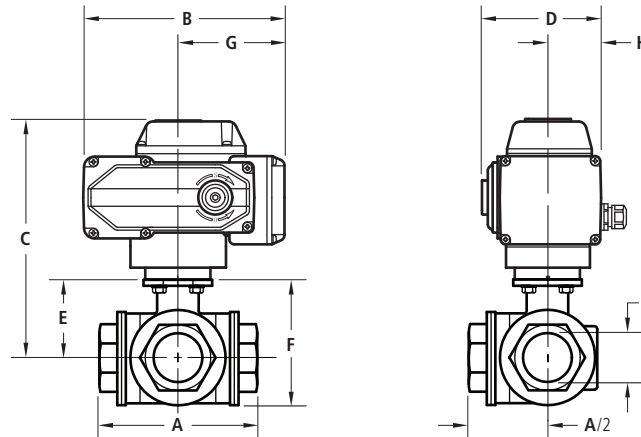
- Standard port brass body, ball and blow out proof stem.
- 3-way valve with forged body and NPT threaded end connection.
- Mounting pad for direct mount.
- PTFE seats and seals.
- Temperature range: -30°F to 320°F.
- Pressure range: 29 inHg vacuum to 400 PSI.

PNEUMATIC ACTUATOR FEATURES

- O Series spring return pneumatic actuator.
- Corrosion resistant coating.
- NAMUR solenoid mounting pad, ISO 5211 mounting standard.
- Visual position indicators.
- High duty cycle, permanent lubrication.
- Temperature range: -4°F to 175°F.

31DXK4 Series

Brass 3-way standard port ball valve with electric actuator, NEMA 4, 4X
 (Threaded end connection, actuators are sized for 400 PSI pressure differential)



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	C	D	E	F	G	H	I	Actuator	Wt. (lbs.)	Model No.
1"	3.74	8.17	8.07	4.82	1.63	2.80	4.43	2.14	.79	KOUNIC10A-ISO	12.6	E31DØXK4A
1-1/4"	4.39	8.17	8.29	4.82	1.85	3.35	4.43	2.14	.98	KOUNIC10A-ISO	14.2	F31DØXK4A
1-1/2"	4.86	8.17	8.78	4.82	2.34	3.95	4.43	2.14	1.26	KOUNIC10A-ISO	16.0	G31DØXK4A
2"	5.73	8.17	9.34	4.82	2.90	4.65	4.43	2.14	1.57	KOUNIC10A-ISO	19.1	H31DØXK4A
2-1/2"	6.93	8.17	9.79	4.82	3.35	5.54	4.43	2.14	1.95	KOUNIC10A-ISO	26.3	I31DØXK4A
3"	7.08	8.17	9.79	4.82	3.35	5.58	4.43	2.14	1.95	KOUNIC10A-ISO	29.6	J31DØXK4A

© Flow Plan: **A, D, E, F, G** (see Port Arrangements diagram).

31D VALVE FEATURES

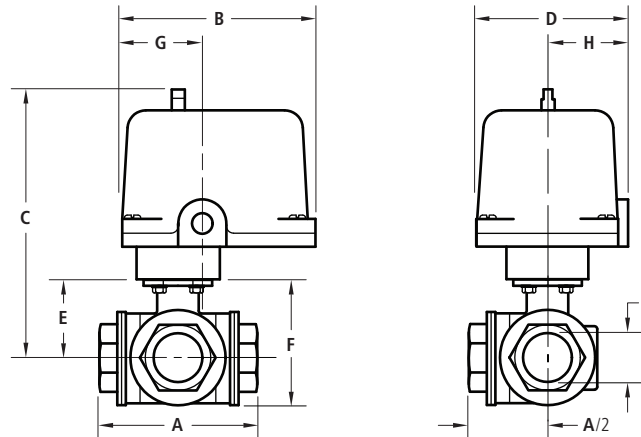
- Standard port brass body, ball and blow out proof stem.
- 3-way valve with forged body and NPT threaded end connection.
- Mounting pad for direct mount.
- PTFE seats and seals.
- Temperature range: -30°F to 320°F.
- Pressure range: 29 inHg vacuum to 400 PSI.

ELECTRIC ACTUATOR FEATURES

- K Series electric actuator.
- Most voltages available.
- Quarter turn: 0-90° rotation.
- NEMA 4/4X certified by UL labs.
- ISO 5211 mounting standard.
- Visual position indicators.
- Self-locking drive train.
- Mounts in any direction.
- 1/2" NPT conduit connection.
- CSA-NRTL/C and CE certified.
- Temperature range: 0°F to 160°F.

31DXR4 Series

Brass 3-way standard port ball valve with electric actuator, NEMA 4, 4X
 (Threaded end connection, actuators are sized for 400 PSI pressure differential)



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	C	D	E	F	G	H	I	Actuator	Wt. (lbs.)	Model No.
1/4"	2.64	5.95	7.25	4.40	1.20	1.98	2.48	2.20	.39	R150 (5 sec.)	5.2	A31D○XR4○
3/8"	2.64	5.95	7.25	4.40	1.20	2.04	2.48	2.20	.43	R150 (5 sec.)	5.2	B31D○XR4○
1/2"	2.87	5.95	7.25	4.40	1.20	2.15	2.48	2.20	.43	R150 (5 sec.)	5.2	C31D○XR4○
3/4"	3.19	5.95	7.34	4.40	1.29	2.64	2.48	2.20	.59	R300 (9 sec.)	7.4	D31D○XR4○
1"	3.74	5.95	7.68	4.40	1.63	2.80	2.48	2.20	.79	R300 (9 sec.)	8.6	E31D○XR4○
1-1/4"	4.39	5.95	7.90	4.40	1.85	3.35	2.48	2.20	.98	R300 (9 sec.)	10.2	F31D○XR4○
1-1/2"	4.86	5.95	8.39	4.40	2.34	3.95	2.48	2.20	1.26	R600 (16 sec.)	12.0	G31D○XR4○
2"	5.73	5.95	8.95	4.40	2.90	4.65	2.48	2.20	1.57	R600 (16 sec.)	15.1	H31D○XR4○
2-1/2"	6.93	5.95	9.40	4.40	3.35	5.54	2.48	2.20	1.95	R600 (16 sec.)	22.3	I31D○XR4○
3"	7.08	5.95	9.40	4.40	3.35	5.58	2.48	2.20	1.95	R600 (16 sec.)	25.6	J31D○XR4○

○ Flow Plan: A, D, E, F, G (see Port Arrangements diagram). ○ Voltage: A = 120 VAC; B = 24 VDC; E = 24 VAC; F = 12 VDC.

31D VALVE FEATURES

- Standard port brass body, ball and blow out proof stem.
- 3-way valve with forged body and NPT threaded end connection.
- Mounting pad for direct mount.
- PTFE seats and seals.
- Temperature range: -30°F to 320°F.
- Pressure range: 29 inHg vacuum to 400 PSI.

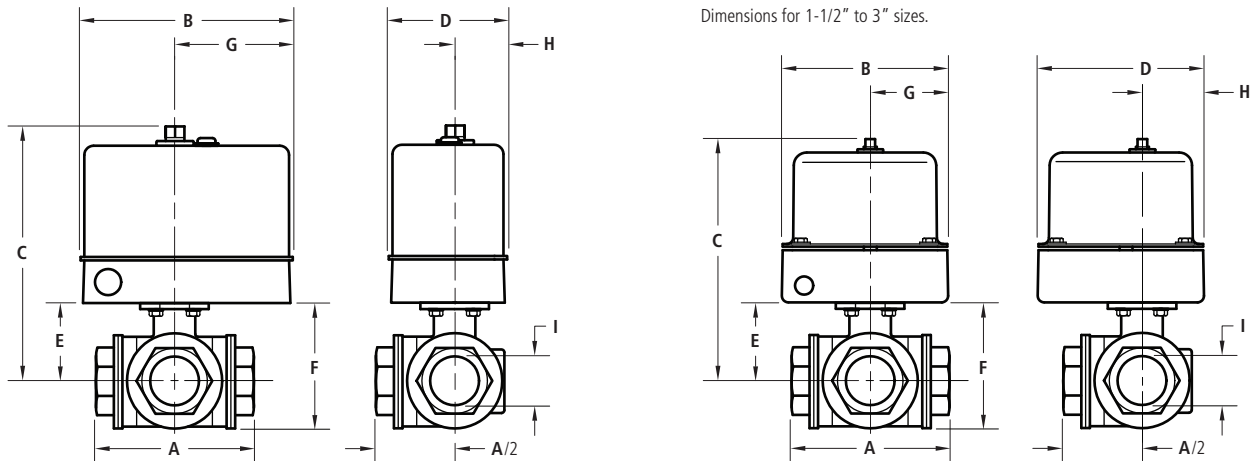
ELECTRIC ACTUATOR FEATURES

- R Series electric actuator.
- NEMA 4, 4X.
- Voltages available: 120 VAC, 12 VDC, 24 VDC.
- Duty cycle: 25% at 120 VAC, 100% at DC units.
- ISO 5211 universal mounting.
- Manual override.
- Permanent lubrication.
- Visual position indicator.
- Temperature range: 0°F to 150°F.

31DXV4 Series

Brass 3-way standard port ball valve with electric actuator, NEMA 4, 4X

(Threaded end connection, actuators are sized for 400 PSI pressure differential)



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	C	D	E	F	G	H	I	Actuator	Wt. (lbs.)	Model No.
1/4"	2.64	5.50	5.43	3.00	1.20	1.98	3.06	1.38	.39	EV1S1V1	6.2	A31D○XV4○
3/8"	2.64	5.50	5.43	3.00	1.20	2.04	3.06	1.38	.43	EV1S1V1	6.2	B31D○XV4○
1/2"	2.87	5.50	5.43	3.00	1.20	2.15	3.06	1.38	.43	EV1S1V1	6.2	C31D○XV4○
3/4"	3.19	5.50	5.52	3.00	1.29	2.64	3.06	1.38	.59	EV1S1V1	6.4	D31D○XV4○
1"	3.74	5.50	5.86	3.00	1.63	2.80	3.06	1.38	.79	EV3S2V1	7.6	E31D○XV4○
1-1/4"	4.39	5.50	6.08	3.00	1.85	3.35	3.06	1.38	.98	EV3S2V1	9.2	F31D○XV4○
1-1/2"	4.86	6.43	8.66	6.43	2.34	3.95	3.01	2.63	1.26	NV6S2V1	17.0	G31D○XV4○
2"	5.73	6.43	9.22	6.43	2.90	4.65	3.01	2.63	1.57	NV6S2V1	20.1	H31D○XV4○
2-1/2"	6.93	6.43	9.67	6.43	3.35	5.54	3.01	2.63	1.95	NV6S2V1	27.3	I31D○XV4○
3"	7.08	6.43	9.67	6.43	3.35	5.58	3.01	2.63	1.95	NV6S2V1	30.6	J31D○XV4○

○ Flow Plan: **A, D, E, F, G** (see Port Arrangements diagram). ○ Voltage: **A** = 120 VAC; **B** = 24 VDC; **C** = 220 VAC; **E** = 24 VAC; **F** = 12 VDC.

31D VALVE FEATURES

- Standard port brass body, ball and blow out proof stem.
- 3-way valve with forged body and NPT threaded end connection.
- Mounting pad for direct mount.
- PTFE seats and seals.
- Temperature range: -30°F to 320°F.
- Pressure range: 29 inHg vacuum to 400 PSI.

ELECTRIC ACTUATOR FEATURES

- V Series electric actuator.
- NEMA 4, 4X.
- Voltages available: 120 VAC, 220 VAC, 24 VAC, 12 VDC, 24 VDC.
- Duty cycle: 25% at 120 VAC (EV1), 75% at 120 VAC (EV3, NV6), 100% at DC units.
- ISO 5211 universal mounting.
- Manual override.
- Permanent lubrication.
- Visual position indicator.
- Temperature range: 0°F to 160°F.

33D Series

Stainless Steel 3-way Full Port Ball Valve



The 33D is a full port, 3-way, 316 stainless steel, NPT threaded end multi port ball valve. It can be equipped with a manual handle or with direct mount pneumatic or electric actuators. The direct mount actuators eliminate the valve-actuator mounting kit, which adds unnecessary height and expense.

A full range of accessory items are available including limit switches, and solenoid valves.

FEATURES

- Full port for unrestricted flow.
- Blow-out proof stem.
- Integrated mounting pad for actuators.
- Compact assembly.
- Complete line of accessories.

ACTUATOR CONFIGURATIONS

- Electric.
- Pneumatic (spring return).
- Pneumatic (double acting).
- Manual handle.

PRESSURE RANGE

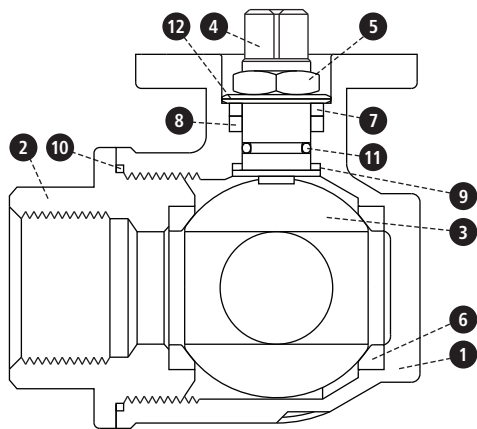
29 inHg vacuum to 800 PSI

TEMPERATURE RANGE

-20°F to 400°F

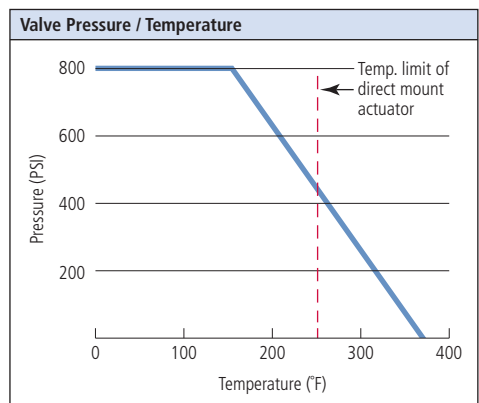
TYPICAL APPLICATIONS

- Air drying equipment, sterilizers and autoclaves.
- Pollution control equipment.
- Process control applications.
- Laundry equipment.
- Textile dyeing and drying.
- Bottling and dispensing.
- Ink and paint dispensing.



PORT ARRANGEMENTS

L Port		T Port							
Flow Plan A		Flow Plan D		Flow Plan E		Flow Plan F		Flow Plan G	
									
Pos1	Pos2	Pos1	Pos2	Pos1	Pos2	Pos1	Pos2	Pos1	Pos2



MATERIALS OF CONSTRUCTION

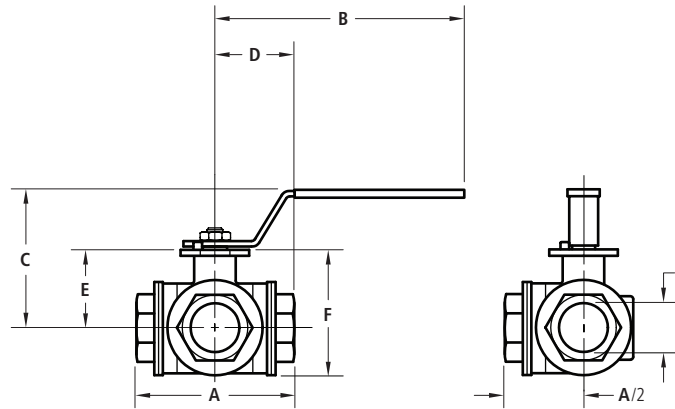
Part	Qty.	Description	Standard Material
1	1	Body	ASTM A351 Gr. CF8M
2	3	End Cap	ASTM A351 Gr. CF8M
3	1	Ball	316 Stainless Steel
4	1	Stem	316 Stainless Steel
5	1	Stem Nut	304 Stainless Steel
6	4	Seat	PTFE
7	1	Gland	304 Stainless Steel
8	1	Stem Packing	PTFE
9	1	Thrust Washer	RPTFE
10	4	Body O-Ring	PTFE
11	1	Stem O-Ring	Viton®
12	2	Belleville Washer	301 Stainless Steel

CV FACTORS

Size	CV
1/4"	3.2
3/8"	3.5
1/2"	4.5
3/4"	10
1"	16
1-1/4"	31
1-1/2"	49
2"	82

33DXM Series

Stainless steel 3-way full port ball valve with manual handle
 (Threaded end connection)



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	C	D	E	F	I	Wt. (lbs.)	Model No.
1/4"	2.84	5.12	2.44	1.42	1.54	2.18	.250	2.0	A33D◊XM
3/8"	2.84	5.12	2.44	1.42	1.54	2.18	.375	2.0	B33D◊XM
1/2"	3.27	5.12	2.52	1.63	1.62	2.50	.500	2.0	C33D◊XM
3/4"	3.90	6.50	3.23	1.95	1.93	2.95	.750	3.0	D33D◊XM
1"	4.41	6.50	3.50	2.20	2.17	3.45	1.000	5.0	E33D◊XM
1-1/4"	4.93	8.08	3.86	2.46	2.48	3.97	1.250	6.0	F33D◊XM
1-1/2"	5.87	8.08	4.25	2.93	2.92	4.66	1.500	11.0	G33D◊XM
2"	6.85	12.81	5.52	3.42	3.66	5.88	2.000	20.0	H33D◊XM

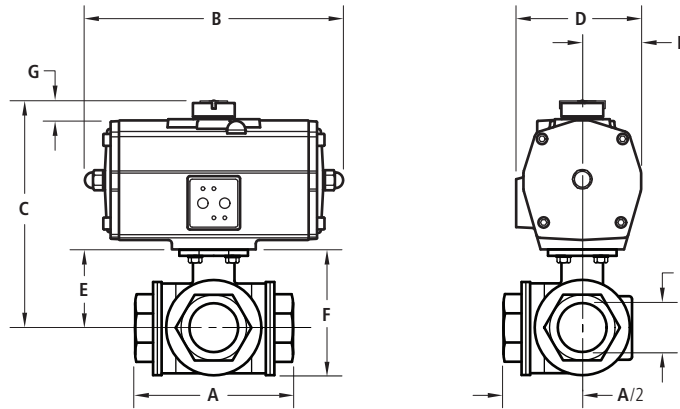
◊ Flow Plan: A, D, E, F, G (see Port Arrangements diagram).

33D VALVE FEATURES

- Full port stainless steel body, ball and blow out proof stem.
- 3-way valve with investment cast body.
- NPT threaded end connection.
- RPTFE seats and seals.
- Mounting pad for direct mount.
- Temperature range: -20°F to 400°F.
- Pressure range: 29 inHg vacuum to 800 PSI.

33DXEDA Series

Stainless steel 3-way full port ball valve with double acting pneumatic actuator
 (Threaded end connection, actuators are sized for 400 PSI pressure differential)



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	C	D	E	F	G	H	I	Actuator	Wt. (lbs.)	Model No.
80 PSI Minimum Actuator Air Supply = 8D												
1/4"	2.84	6.26	5.48	3.26	1.54	2.18	.79	1.46	.250	ED25	4.9	A33D○XE8D
3/8"	2.84	6.26	5.48	3.26	1.54	2.18	.79	1.46	.375	ED25	4.9	B33D○XE8D
1/2"	3.27	6.26	5.56	3.26	1.62	2.50	.79	1.46	.500	ED25	4.9	C33D○XE8D
3/4"	3.90	6.26	5.87	3.26	1.93	2.95	.79	1.46	.750	ED25	5.9	D33D○XE8D
1"	4.41	7.09	6.62	3.78	2.17	3.45	.79	1.70	1.000	ED40	9.0	E33D○XE8D
1-1/4"	4.93	7.83	7.40	4.19	2.48	3.97	.79	1.93	1.250	ED65	11.3	F33D○XE8D
1-1/2"	5.87	7.83	7.84	4.19	2.92	4.66	.79	1.93	1.500	ED65	16.3	G33D○XE8D
2"	6.85	8.70	9.10	4.60	3.66	5.88	.79	2.12	2.000	ED100	26.8	H33D○XE8D
60 PSI Minimum Actuator Air Supply = 6D												
1/4"	2.84	6.26	5.48	3.26	1.54	2.18	.79	1.46	.250	ED25	4.9	A33D○XE6D
3/8"	2.84	6.26	5.48	3.26	1.54	2.18	.79	1.46	.375	ED25	4.9	B33D○XE6D
1/2"	3.27	6.26	5.56	3.26	1.62	2.50	.79	1.46	.500	ED25	4.9	C33D○XE6D
3/4"	3.90	7.09	6.38	3.78	1.93	2.95	.79	1.70	.750	ED40	7.0	D33D○XE6D
1"	4.41	7.83	7.09	4.19	2.17	3.45	.79	1.93	1.000	ED65	10.3	E33D○XE6D
1-1/4"	4.93	8.70	7.92	4.60	2.48	3.97	.79	2.12	1.250	ED100	12.8	F33D○XE6D
1-1/2"	5.87	8.70	8.36	4.60	2.92	4.66	.79	2.12	1.500	ED100	17.8	G33D○XE6D
2"	6.85	11.14	10.08	5.39	3.66	5.88	.79	2.52	2.000	ED200	32.8	H33D○XE6D

© Flow Plan: **A, D, E, F, G** (see Port Arrangements diagram).

33D VALVE FEATURES

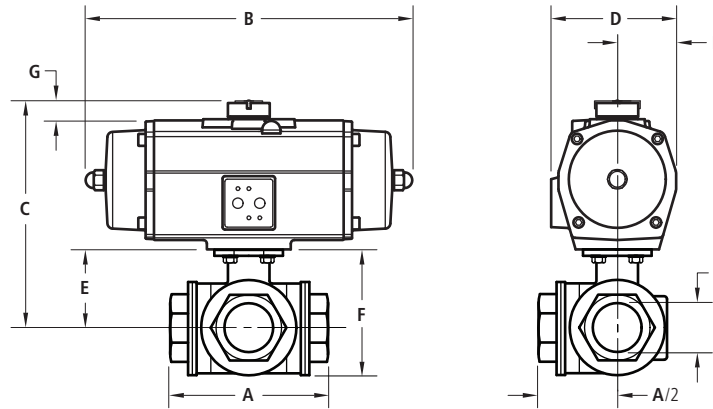
- Full port stainless steel body, ball and blow out proof stem.
- 3-way valve with investment cast body.
- NPT threaded end connection.
- RPTFE seats and seals.
- Mounting pad for direct mount.
- Temperature range: -20°F to 400°F.
- Pressure range: 29 inHg vacuum to 800 PSI.

PNEUMATIC ACTUATOR FEATURES

- E Series double acting rack and pinion actuator.
- Corrosion resistant coating.
- NAMUR solenoid mounting pad, ISO 5211 mounting standard.
- Visual position indicators.
- High duty cycle.
- Permanent lubrication.
- Temperature range: -4°F to 175°F.

33DXESR Series

Stainless steel 3-way full port ball valve with spring return pneumatic actuator
 (Threaded end connection, actuators are sized for 400 PSI pressure differential)



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	C	D	E	F	G	H	I	Actuator	Wt. (lbs.)	Model No.
80 PSI Minimum Actuator Air Supply = 85												
1/4"	2.84	6.77	5.48	3.26	1.54	2.18	.79	1.46	.250	ES25	5.7	A33D○XE8S
3/8"	2.84	6.77	5.48	3.26	1.54	2.18	.79	1.46	.375	ES25	5.7	B33D○XE8S
1/2"	3.27	8.03	6.07	3.78	1.62	2.50	.79	1.70	.500	ES40	7.3	C33D○XE8S
3/4"	3.90	8.03	6.38	3.78	1.93	2.95	.79	1.70	.750	ES40	8.3	D33D○XE8S
1"	4.41	9.80	7.09	4.19	2.17	3.45	.79	1.93	1.000	ES65	12.9	E33D○XE8S
1-1/4"	4.93	10.51	7.92	4.60	2.48	3.97	.79	2.12	1.250	ES100	16.1	F33D○XE8S
1-1/2"	5.87	14.17	9.34	5.39	2.92	4.66	.79	2.52	1.500	ES200	31.1	G33D○XE8S
2"	6.85	14.17	10.08	5.39	3.66	5.88	.79	2.52	2.000	ES200	40.1	H33D○XE8S
60 PSI Minimum Actuator Air Supply = 65												
1/4"	2.84	8.03	5.99	3.78	1.54	2.18	.79	1.70	.250	ES40	7.3	A33D○XE6S
3/8"	2.84	8.03	5.99	3.78	1.54	2.18	.79	1.70	.375	ES40	7.3	B33D○XE6S
1/2"	3.27	8.03	6.07	3.78	1.62	2.50	.79	1.70	.500	ES40	7.3	C33D○XE6S
3/4"	3.90	8.03	6.38	3.78	1.93	2.95	.79	1.70	.750	ES40	8.3	D33D○XE6S
1"	4.41	10.51	7.61	4.60	2.17	3.45	.79	2.12	1.000	ES100	15.1	E33D○XE6S
1-1/4"	4.93	14.17	8.90	5.39	2.48	3.97	.79	2.52	1.250	ES200	26.1	F33D○XE6S
1-1/2"	5.87	14.17	9.34	5.39	2.92	4.66	.79	2.52	1.500	ES200	31.1	G33D○XE6S
2"	6.85	14.17	10.08	5.39	3.66	5.88	.79	2.52	2.000	ES200	40.1	H33D○XE6S

© Flow Plan: **A, D, E, F, G** (see Port Arrangements diagram).

33D VALVE FEATURES

- Full port stainless steel body, ball and blow out proof stem.
- 3-way valve with investment cast body.
- NPT threaded end connection.
- RPTFE seats and seals.
- Mounting pad for direct mount.
- Temperature range: -20°F to 400°F.
- Pressure range: 29 inHg vacuum to 800 PSI.

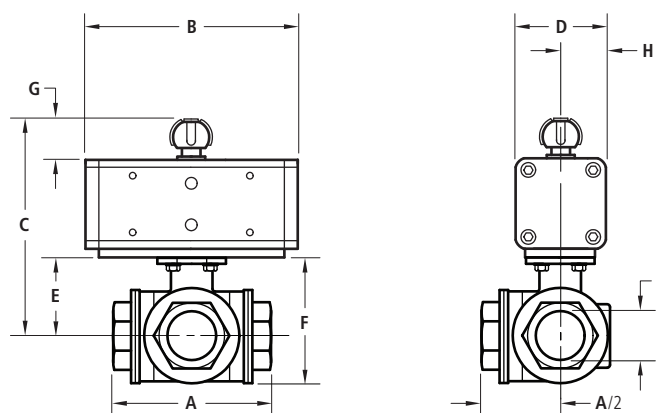
PNEUMATIC ACTUATOR FEATURES

- E Series spring return rack and pinion actuator.
- Corrosion resistant coating.
- NAMUR solenoid mounting pad, ISO 5211 mounting standard.
- Visual position indicators.
- High duty cycle.
- Permanent lubrication.
- Temperature range: -4°F to 175°F.

33DXODA Series

Stainless steel 3-way full port ball valve with double acting pneumatic actuator

(Threaded end connection, actuators are sized for 400 PSI pressure differential)



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	C	D	E	F	G	H	I	Actuator	Wt. (lbs.)	Model No.
80 PSI Minimum Actuator Air Supply = 8D												
1/4"	2.84	5.12	4.69	2.16	1.54	2.18	.79	1.08	.250	PD030	4.2	A33D○X08D
3/8"	2.84	5.12	4.69	2.16	1.54	2.18	.79	1.08	.375	PD030	4.2	B33D○X08D
1/2"	3.27	5.12	4.77	2.16	1.62	2.50	.79	1.08	.500	PD030	4.2	C33D○X08D
3/4"	3.90	5.67	5.30	2.36	1.93	2.95	.79	1.18	.750	PD045	5.8	D33D○X08D
1"	4.41	5.67	5.54	2.36	2.17	3.45	.79	1.18	1.000	PD045	7.8	E33D○X08D
1-1/4"	4.93	6.65	6.32	2.83	2.48	3.97	.79	1.41	1.250	PD090	10.1	F33D○X08D
1-1/2"	5.87	6.65	6.76	2.83	2.92	4.66	.79	1.41	1.500	PD090	15.1	G33D○X08D
2"	6.85	8.35	8.62	3.54	3.66	5.88	1.18	1.77	2.000	PD180	27.5	H33D○X08D
60 PSI Minimum Actuator Air Supply = 6D												
1/4"	2.84	5.12	4.69	2.16	1.54	2.18	.59	1.08	.250	PD030	4.2	A33D○X06D
3/8"	2.84	5.12	4.69	2.16	1.54	2.18	.59	1.08	.375	PD030	4.2	B33D○X06D
1/2"	3.27	5.12	4.77	2.16	1.62	2.50	.59	1.08	.500	PD030	4.2	C33D○X06D
3/4"	3.90	5.67	5.30	2.36	1.93	2.95	.79	1.18	.750	PD045	5.8	D33D○X06D
1"	4.41	5.98	5.71	2.56	2.17	3.45	.79	1.28	1.000	PD060	8.4	E33D○X06D
1-1/4"	4.93	6.65	6.32	2.83	2.48	3.97	.79	1.41	1.250	PD090	10.1	F33D○X06D
1-1/2"	5.87	7.24	7.48	3.15	2.92	4.66	1.18	1.57	1.500	PD120	17.2	G33D○X06D
2"	6.85	8.35	8.62	3.54	3.66	5.88	1.18	1.77	2.000	PD180	27.5	H33D○X06D

© Flow Plan: A, D, E, F, G (see Port Arrangements diagram).

33D VALVE FEATURES

- Full port stainless steel body, ball and blow out proof stem.
- 3-way valve with investment cast body.
- NPT threaded end connection.
- RPTFE seats and seals.
- Mounting pad for direct mount.
- Temperature range: -20°F to 400°F.
- Pressure range: 29 inHg vacuum to 800 PSI.

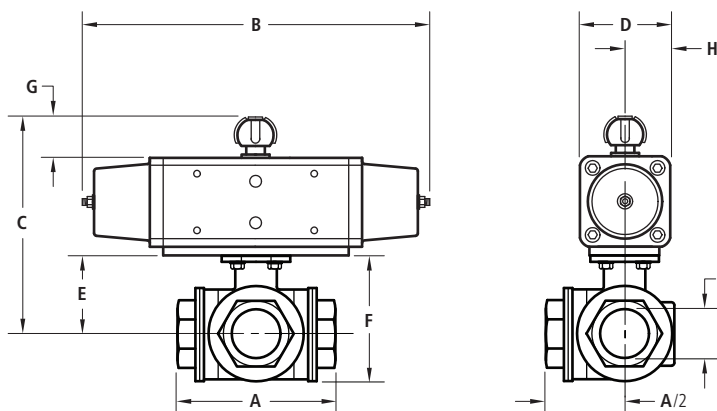
PNEUMATIC ACTUATOR FEATURES

- O Series double acting pneumatic actuator.
- Corrosion resistant coating.
- NAMUR solenoid mounting pad, ISO 5211 mounting standard.
- Visual position indicators.
- High duty cycle.
- Permanent lubrication.
- Temperature range: -4°F to 175°F.

33DXOSR Series

Stainless steel 3-way full port ball valve with spring return pneumatic actuator

(Threaded end connection, actuators are sized for 400 PSI pressure differential)



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	C	D	E	F	G	H	I	Actuator	Wt. (lbs.)	Model No.
80 PSI Minimum Actuator Air Supply = 85												
1/4"	2.84	8.71	4.77	2.16	1.54	2.18	.79	1.08	.250	PS015	4.9	A33D○X08S
3/8"	2.84	8.71	4.77	2.16	1.54	2.18	.79	1.08	.375	PS015	4.9	B33D○X08S
1/2"	3.27	9.45	5.16	2.56	1.62	2.50	.79	1.28	.500	PS030	6.4	C33D○X08S
3/4"	3.90	9.45	5.47	2.56	1.93	2.95	.79	1.28	.750	PS030	7.4	D33D○X08S
1"	4.41	11.58	6.01	2.83	2.17	3.45	.79	1.41	1.000	PS045	10.3	E33D○X08S
1-1/4"	4.93	12.60	7.04	3.15	2.48	3.97	1.18	1.57	1.250	PS060	13.7	F33D○X08S
1-1/2"	5.87	14.06	7.88	3.54	2.92	4.66	1.18	1.77	1.500	PS090	21.1	G33D○X08S
2"	6.85	14.65	9.01	3.94	3.66	5.88	1.18	1.97	2.000	PS120	34.7	H33D○X08S
60 PSI Minimum Actuator Air Supply = 65												
1/4"	2.84	9.45	5.08	2.16	1.54	2.18	.79	1.28	.250	PS030	6.4	A33D○X06S
3/8"	2.84	9.45	5.08	2.16	1.54	2.18	.79	1.28	.375	PS030	6.4	B33D○X06S
1/2"	3.27	9.45	5.16	2.16	1.62	2.50	.79	1.28	.500	PS030	6.4	C33D○X06S
3/4"	3.90	9.45	5.47	2.16	1.93	2.95	.79	1.28	.750	PS030	7.4	D33D○X06S
1"	4.41	12.60	6.73	3.15	2.17	3.45	1.18	1.57	1.000	PS060	12.7	E33D○X06S
1-1/4"	4.93	14.06	7.44	3.54	2.48	3.97	1.18	1.77	1.250	PS090	16.1	F33D○X06S
1-1/2"	5.87	14.65	8.27	3.94	2.92	4.66	1.18	1.97	1.500	PS120	25.7	G33D○X06S
2"	6.85	17.18	9.48	4.41	3.66	5.88	1.18	2.20	2.000	PS180	40.7	H33D○X06S

© Flow Plan: A, D, E, F, G (see Port Arrangements diagram).

33D VALVE FEATURES

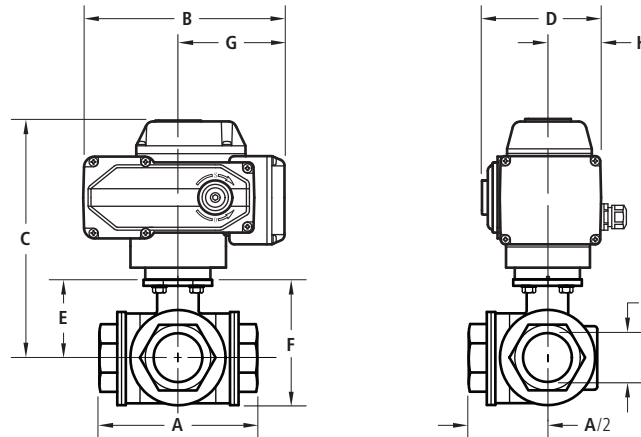
- Full port stainless steel body, ball and blow out proof stem.
- 3-way valve with investment cast body.
- NPT threaded end connection.
- RPTFE seats and seals.
- Mounting pad for direct mount.
- Temperature range: -20°F to 400°F.
- Pressure range: 29 inHg vacuum to 800 PSI.

PNEUMATIC ACTUATOR FEATURES

- O Series spring return pneumatic actuator.
- Corrosion resistant coating.
- NAMUR solenoid mounting pad, ISO 5211 mounting standard.
- Visual position indicators.
- High duty cycle.
- Permanent lubrication.
- Temperature range: -4°F to 175°F.

33DXK4 Series

Stainless steel 3-way full port ball valve with electric actuator, NEMA 4, 4X
 (Threaded end connection, actuators are sized for 400 PSI pressure differential)



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	C	D	E	F	G	H	I	Actuator	Wt. (lbs.)	Model No.
3/4"	3.90	8.17	8.37	4.82	1.93	2.95	4.43	2.14	0.75	KOUNIC10A-ISO	13.0	D33D⊙XK4A
1"	4.41	8.17	8.61	4.82	2.17	3.45	4.43	2.14	1.00	KOUNIC10A-ISO	15.0	E33D⊙XK4A
1-1/4"	4.93	8.17	8.92	4.82	2.48	3.97	4.43	2.14	1.25	KOUNIC10A-ISO	16.0	F33D⊙XK4A
1-1/2"	5.87	8.17	9.36	4.82	2.92	4.66	4.43	2.14	1.50	KOUNIC10A-ISO	21.0	G33D⊙XK4A
2"	6.85	8.17	10.10	4.82	3.66	5.88	4.43	2.14	2.00	KOUNIC10A-ISO	30.0	H33D⊙XK4A

⊙ Flow Plan: **A, D, E, F, G** (see Port Arrangements diagram).

33D VALVE FEATURES

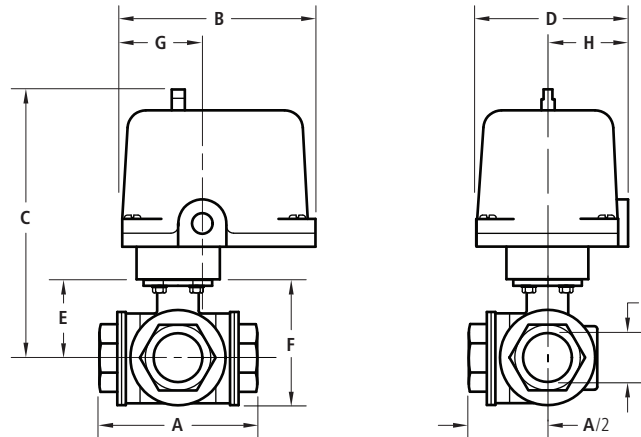
- Full port stainless steel body, ball and blow out proof stem.
- 3-way valve with investment cast body.
- NPT threaded end connection.
- RPTFE seats and seals.
- Mounting pad for direct mount.
- Temperature range: -20°F to 400°F.
- Pressure range: 29 inHg vacuum to 800 PSI.

ELECTRIC ACTUATOR FEATURES

- K Series electric actuator.
- Most voltages available.
- Quarter turn: 0-90° rotation.
- NEMA 4/4X certified by UL labs.
- ISO 5211 mounting standard.
- Visual position indicators.
- Self-locking drive train.
- Mounts in any direction.
- 1/2" NPT conduit connection.
- CSA-NRTL/C and CE certified.
- Temperature range: 0°F to 160°F.

33DXR4 Series

Stainless steel 3-way full port ball valve with electric actuator, NEMA 4, 4X
 (Threaded end connection, actuators are sized for 400 PSI pressure differential)



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	C	D	E	F	G	H	I	Actuator	Wt. (lbs.)	Model No.
1/4"	2.84	5.95	7.25	4.40	1.54	2.18	2.48	2.20	.250	R150 (5 sec.)	6.0	A33D⊙XR4⊙
3/8"	2.84	5.95	7.25	4.40	1.54	2.18	2.48	2.20	.375	R150 (5 sec.)	6.0	B33D⊙XR4⊙
1/2"	3.27	5.95	7.25	4.40	1.62	2.50	2.48	2.20	.500	R150 (5 sec.)	6.0	C33D⊙XR4⊙
3/4"	3.90	5.95	7.98	4.40	1.93	2.95	2.48	2.20	.750	R300 (9 sec.)	9.0	D33D⊙XR4⊙
1"	4.41	5.95	8.22	4.40	2.17	3.45	2.48	2.20	1.000	R600 (16 sec.)	11.0	E33D⊙XR4⊙
1-1/4"	4.93	5.95	8.53	4.40	2.48	3.97	2.48	2.20	1.250	R600 (16 sec.)	17.0	F33D⊙XR4⊙
1-1/2"	5.87	5.95	8.97	4.40	2.92	4.66	2.48	2.20	1.500	R600 (16 sec.)	26.0	G33D⊙XR4⊙
2"	See K Series											

⊙ Flow Plan: **A, D, E, F, G** (see Port Arrangements diagram). ⊙ Voltage: **A** = 120 VAC; **B** = 24 VDC; **E** = 24 VAC; **F** = 12 VDC.

33D VALVE FEATURES

- Full port stainless steel body, ball and blow out proof stem.
- 3-way valve with investment cast body.
- NPT threaded end connection.
- RPTFE seats and seals.
- Mounting pad for direct mount.
- Temperature range: -20°F to 400°F.
- Pressure range: 29 inHg vacuum to 800 PSI.

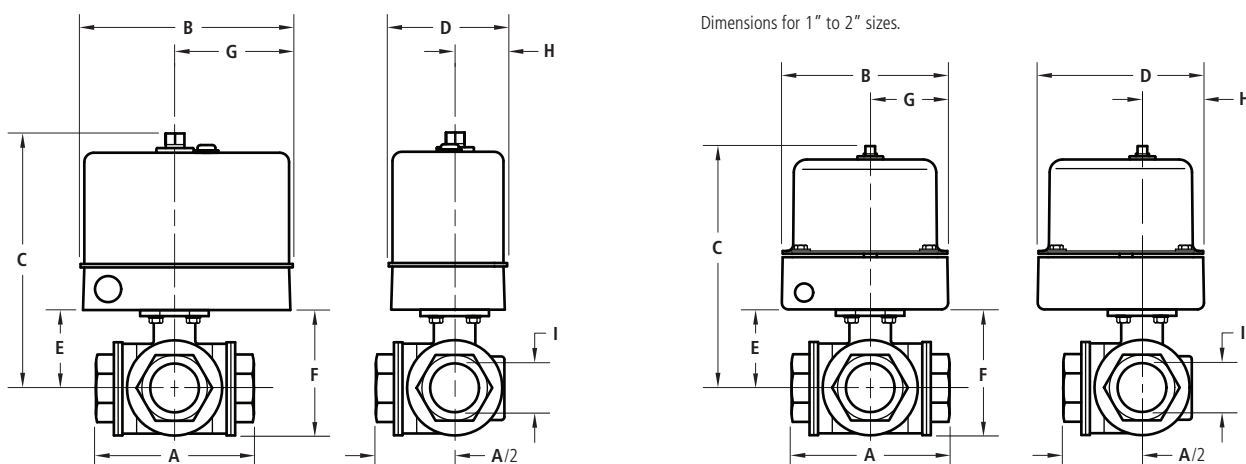
ELECTRIC ACTUATOR FEATURES

- R Series electric actuator.
- NEMA 4, 4X.
- Voltages available: 120 VAC, 12 VDC, 24 VDC.
- Duty cycle: 25% at 120 VAC, 100% at DC units.
- ISO 5211 universal mounting.
- Manual override.
- Permanent lubrication.
- Visual position indicator.
- Temperature range: -0°F to 150°F.

33DXV4 Series

Stainless steel 3-way full port ball valve with electric actuator, NEMA 4, 4X

(Threaded end connection, actuators are sized for 400 PSI pressure differential)



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	C	D	E	F	G	H	I	Actuator	Wt. (lbs.)	Model No.
1/4"	2.84	5.50	5.77	3.00	1.54	2.18	3.06	1.38	.250	EV1S1V1	7.0	A31D○XV4○
3/8"	2.84	5.50	5.77	3.00	1.54	2.18	3.06	1.38	.375	EV1S1V1	7.0	B31D○XV4○
1/2"	3.27	5.50	5.85	3.00	1.62	2.50	3.06	1.38	.500	EV1S1V1	7.0	C31D○XV4○
3/4"	3.90	5.50	6.16	3.00	1.93	2.95	3.06	1.38	.750	EV1S1V1	8.0	D31D○XV4○
1"	4.41	6.43	8.49	6.43	2.17	3.45	3.01	2.63	1.000	NV6S2V1	16.0	E31D○XV4○
1-1/4"	4.93	6.43	8.80	6.43	2.48	3.97	3.01	2.63	1.250	NV6S2V1	17.0	F31D○XV4○
1-1/2"	5.87	6.43	9.24	6.43	2.92	4.66	3.01	2.63	1.500	NV6S2V1	22.0	G31D○XV4○
2"	6.85	6.43	9.98	6.43	3.66	5.88	3.01	2.63	2.000	NV1KS2V1	31.0	H31D○XV4○

○ Flow Plan: **A, D, E, F, G** (see Port Arrangements diagram). ○ Voltage: **A** = 120 VAC; **B** = 24 VDC; **C** = 220 VAC; **E** = 24 VAC; **F** = 12 VDC.

33D VALVE FEATURES

- Full port stainless steel body, ball and blow out proof stem.
- 3-way valve with investment cast body.
- NPT threaded end connection.
- RPTFE seats and seals.
- Mounting pad for direct mount.
- Temperature range: -20°F to 400°F.
- Pressure range: 29 inHg vacuum to 800 PSI.

ELECTRIC ACTUATOR FEATURES

- V Series electric actuator.
- NEMA 4, 4X.
- Voltages available: 120 VAC, 220 VAC, 24 VAC, 12 VDC, 24 VDC.
- Duty cycle: 25% at 120 VAC (EV1), 75% at 120 VAC (EV3, NV6), 100% at DC units.
- ISO 5211 universal mounting.
- Manual override.
- Permanent lubrication.
- Visual position indicator.
- Temperature range: 0°F to 160°F.

MPF 150/300 Series

Multiport Ball Valve



This 3-way ball valve features an extremely versatile design making it ideal for a wide range of diversion or mixing applications.

FEATURES

- One piece stem and ball trunnion support design.
- Three seat design maintains proper ball position.
- Actuator mounting pad.
- Anti-static grounding device.
- Open and closed locking device for positional safety lockout.
- Flow plans for T and L ports can be field rearranged to meet many other flow plans.
- Body cavity fillers available for sizes 3/4" to 4".

MATERIALS OF CONSTRUCTION

Body:
Stainless steel.

Seats:
TFM.

ACTUATOR CONFIGURATIONS

- Electric.
- Pneumatic (spring return).
- Pneumatic (double acting).
- Manual handle.

MAXIMUM PRESSURE

Class 150:
Body: 275 PSI

Class 300:
Body: 700 PSI

MAXIMUM TEMPERATURE
550°F

SPECIFICATIONS

Connections:
3/4" to 12" flanged.

PORT ARRANGEMENTS

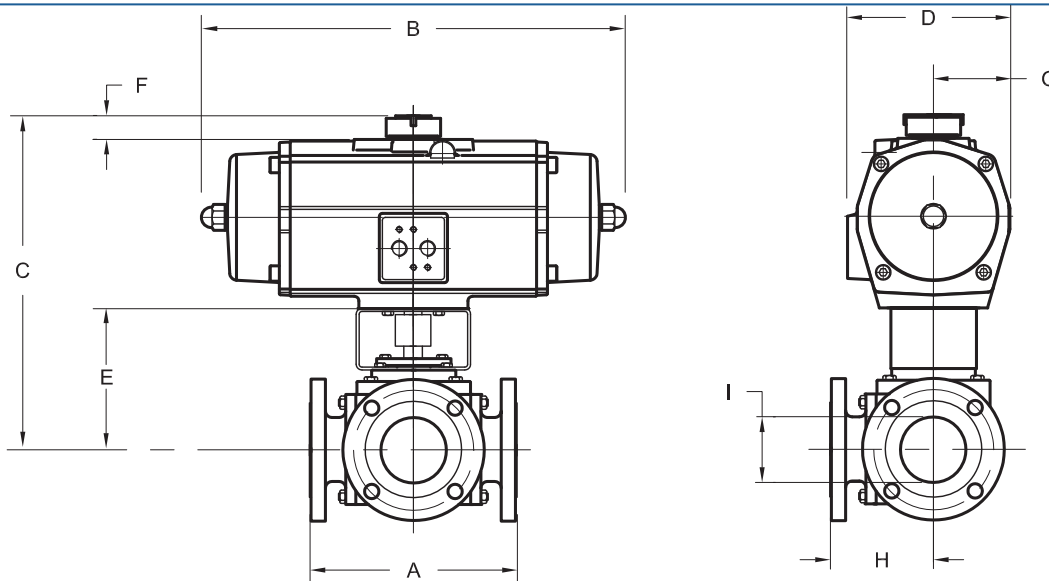
T Port		L Port
Flow Plan D	Flow Plan H	Flow Plan A
 Pos1 Pos2	 Pos1 Pos2 Pos3	 Pos1 Pos2
Flow Plan E	Flow Plan I	Flow Plan B
 Pos1 Pos2	 Pos1 Pos2 Pos3	 Pos1 Pos2 Pos3
Flow Plan F	Flow Plan J	
 Pos1 Pos2	 Pos1 Pos2 Pos3	
Flow Plan G	Flow Plan K	
 Pos1 Pos2	 Pos1 Pos2 Pos3	

MPF150 ESR .75 - 6

Full port ball valve with spring return pneumatic actuator

150# Flanged body TFM Seats

Actuators are sized for 150 psi pressure differential



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	C	D	E	F	G	H	I	Actuator	Wt. (lbs.)	Model No.
80 psig Minimum Actuator Air Supply = 8S												
3/4"	6.65	10.51	11.06	4.60	5.62	.79	2.12	3.33	.75	ES100	27.1	DMPF150 * F E8S ① ②
1"	7.30	12.20	11.96	5.14	5.66	.79	2.38	3.65	1.00	ES150	36.2	EMPF150 * F E8S ① ②
1-1/2"	7.17	12.20	11.78	5.14	5.48	.79	2.38	3.57	1.50	ES150	40.2	GMPF150 * F E8S ① ②
2"	8.66	12.20	12.17	5.14	5.87	.79	2.38	4.33	2.01	ES150	56.2	HMPF150 * F E8S ① ②
3"	11.26	18.78	17.46	8.52	7.62	1.18	4.08	5.62	3.00	ES600	142.8	JMPF150 * F E8S ① ②
4"	13.66	20.35	22.36	9.51	10.88	1.18	4.54	6.85	4.02	ES950	233.1	KMPF150 * F E8S ① ②
6"	16.77	32.83	28.64	15.35	12.50	1.18	7.48	8.47	5.98	PS4000	561.0	MMPF150 * F E8S ① ②
60 psig Minimum Actuator Air Supply = 6S												
3/4"	6.65	12.20	11.92	5.14	5.62	.79	2.38	3.33	.75	ES150-3	32.2	DMPF150 * F E6S ① ②
1"	7.30	14.17	12.08	5.39	5.66	.79	2.52	3.65	1.00	ES200-3	41.1	EMPF150 * F E6S ① ②
1-1/2"	7.17	14.17	11.90	5.39	5.48	.79	2.52	3.57	1.50	ES200-3	45.1	GMPF150 * F E6S ① ②
2"	8.66	15.24	13.79	7.12	5.87	.79	3.41	4.33	2.01	ES350-3	78.3	HMPF150 * F E6S ① ②
3"	11.26	20.35	19.00	9.51	7.62	1.18	4.54	5.62	3.00	ES950-3	167.1	JMPF150 * F E6S ① ②
4"	13.66	25.08	23.75	10.81	10.88	1.18	5.21	6.85	4.02	ES1600-3	293.1	KMPF150 * F E6S ① ②
6"	16.77	32.83	28.64	15.35	12.50	1.18	7.48	8.47	5.98	PS4000-8	561.0	MMPF150 * F E6S ① ②

Note: Dimensions "C" & "E" include a 3" high mounting bracket on 3/4" - 2" valves
 4" high mounting bracket on 3" valve & 6" high bracket on 4" - 6" valves
 Valve sizes 3/4" & 1" only available as Stainless Steel

*C = Carbon Stl Body, 316SS Trim
 *S = 316SS Body & Trim
 ① C=Flow Pattern
 ② C=Fail Close, O=Fail Open

MPF150 VALVE SPECIFICATIONS

- MPF150 Class 150
- Grounded Ball & Stem
- Full Port Ball Orifice
- Four-Bolt Actuator Mounting
- Multiple piece Stem Packing
- Carbon Steel (1-1/2" - 6") or Stainless Steel (3/4" - 6") Body
- Unique one piece Ball & Stem design
- Seats: TFM
- Max Temp: 475°F

PNEUMATIC ACTUATOR FEATURES

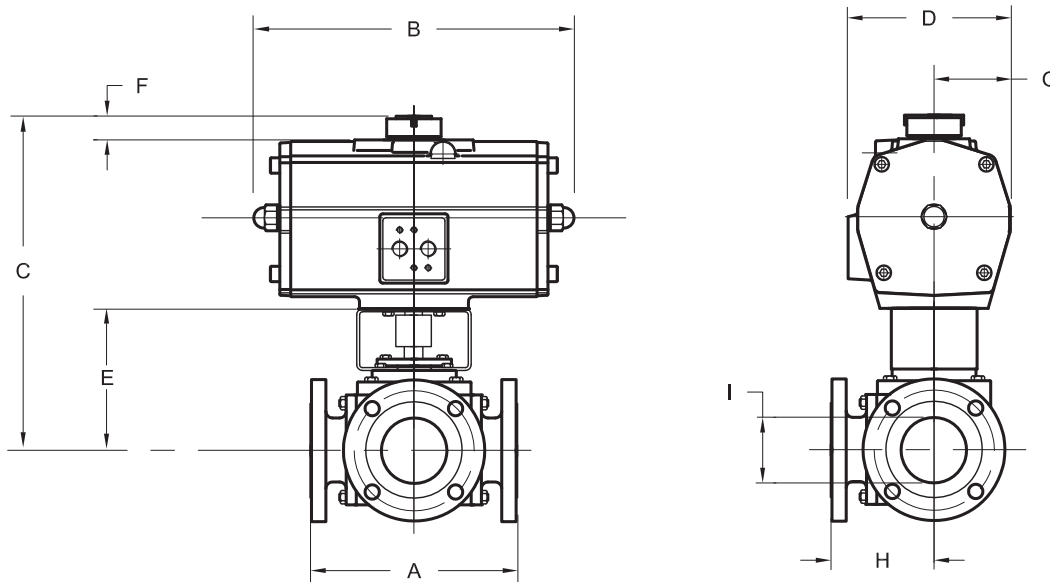
- E Series spring return rack and pinion pneumatic actuator
- Corrosion resistant coating
- NAMUR solenoid mounting pad, ISO 5211 mounting standard
- Visual position indicator
- High duty cycle, permanent lubrication
- Temperature range: -4°F to 175°F

MPF150 EDA .75 - 6

Full port ball valve with double acting pneumatic actuator

150# Flanged body TFM Seats

Actuators are sized for 150 psi pressure differential



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	C	D	E	F	G	H	I	Actuator	Wt. (lbs.)	Model No.
80 psig Minimum Actuator Air Supply = 8D												
3/4"	6.65	7.09	10.07	3.78	5.62	.79	1.70	3.33	.75	ED40	21.0	DMPF150 * F E8D ①
1"	7.30	7.83	10.58	4.19	5.66	.79	1.93	3.65	1.00	ED65	26.3	EMPF150 * F E8D ①
1-1/2"	7.17	7.83	10.40	4.19	5.48	.79	1.93	3.57	1.50	ED65	30.3	GMPF150 * F E8D ①
2"	8.66	8.70	11.31	4.60	5.87	.79	2.12	4.33	2.01	ED100	47.8	HMPF150 * F E8D ①
3"	11.26	11.14	14.04	5.39	7.62	.79	2.52	5.62	3.00	ED200	94.8	JMPF150 * F E8D ①
4"	13.66	12.01	18.80	7.12	10.88	.79	3.41	6.85	4.02	ED350	170.9	KMPF150 * F E8D ①
6"	16.77	20.31	25.37	10.81	12.50	1.18	5.21	8.47	5.98	ED1600	364.1	MMPF150 * F E8D ①
60 psig Minimum Actuator Air Supply = 6D												
3/4"	6.65	7.09	10.07	3.78	5.62	.79	1.70	3.33	.75	ED40	21.0	DMPF150 * F E6D ①
1"	7.30	7.83	10.58	4.19	5.66	.79	1.93	3.65	1.00	ED65	26.3	EMPF150 * F E6D ①
1-1/2"	7.17	8.70	10.92	4.60	5.48	.79	2.12	3.57	1.50	ED100	31.8	GMPF150 * F E6D ①
2"	8.66	10.00	12.17	5.14	5.87	.79	2.38	4.33	2.01	ED150	51.5	HMPF150 * F E6D ①
3"	11.26	12.01	15.54	7.12	7.62	.79	3.41	5.62	3.00	ED350	104.9	JMPF150 * F E6D ①
4"	13.66	15.24	20.72	8.52	10.88	1.18	4.08	6.85	4.02	ED600	190.8	KMPF150 * F E6D ①
6"	16.77	20.31	25.37	10.81	12.50	1.18	5.21	8.47	5.98	ED1600	364.1	MMPF150 * F E6D ①

Note: Dimensions "C" & "E" include a 3" high mounting bracket on 3/4" - 2" valves
 4" high mounting bracket on 3" valve & 6" high bracket on 4" - 6" valves
 Valve sizes 3/4" & 1" only available as Stainless Steel

*C = Carbon Stl Body, 316SS Trim
 *S = 316SS Body & Trim
 ① C=Flow Pattern

MPF150 VALVE SPECIFICATIONS

- MPF150 Class 150
- Grounded Ball & Stem
- Full Port Ball Orifice
- Four-Bolt Actuator Mounting
- Multiple piece Stem Packing
- Carbon Steel (1-1/2" - 6") or Stainless Steel (3/4" - 6") Body
- Unique one piece Ball & Stem design
- Seats: TFM
- Max Temp: 475°F

PNEUMATIC ACTUATOR FEATURES

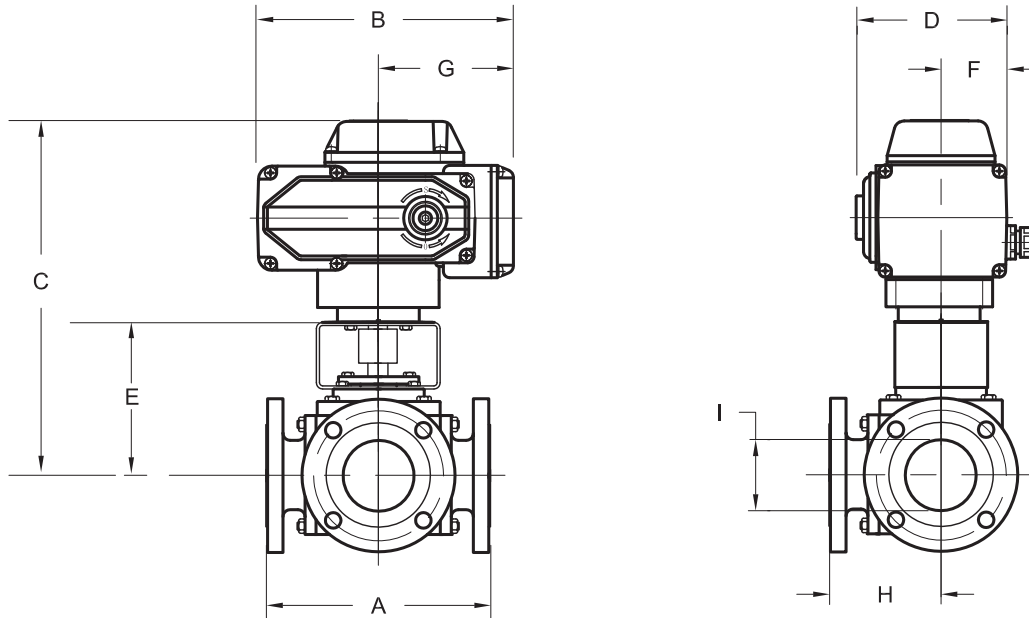
- E Series double acting rack and pinion pneumatic actuator
- Corrosion resistant coating
- NAMUR solenoid mounting pad, ISO 5211 mounting standard
- Visual position indicator
- High duty cycle, permanent lubrication
- Temperature range: -4°F to 175°F

MPF150 K4A .75 - 6

Full port ball valve with electric actuator

150# Flanged body TFM Seats

Actuators are sized for 150 psi pressure differential



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	C	D	E	F	G	H	I	Actuator	Wt. (lbs.)	Model No.
3/4"	6.65	6.24	9.70	4.51	5.62	2.00	2.99	3.33	.75	UNIC 05A	22.0	DMPF150 * F K4A ①
1"	7.30	8.17	12.10	4.82	5.66	2.14	4.33	3.65	1.00	UNIC 10A	31.0	EMPF150 * F K4A ①
1-1/2"	7.17	8.17	11.92	4.92	5.48	2.14	4.33	3.57	1.50	UNIC 10A	35.0	GMPF150 * F K4A ①
2"	8.66	8.17	12.31	4.82	5.87	2.14	4.33	4.33	2.01	UNIC 10A	51.0	HMPF150 * F K4A ①
3"	11.26	10.10	14.90	6.16	7.62	2.46	5.25	5.62	3.00	UNIC 40A	100.0	JMPF150 * F K4A ①
4"	13.66	15.00	20.09	9.53	10.88	4.13	7.85	6.85	4.02	UNIC 60A	194.2	KMPF150 * F K4A ①
6"	16.77	15.00	21.71	9.98	12.50	4.13	7.85	8.47	5.98	UNIC 150A	317.7	MMPF150 * F K4A ①

Note: Dimensions "C" & "E" include a 3" high mounting bracket on 3/4" - 2" valves
 4" high mounting bracket on 3" valve & 6" high bracket on 4" - 6" valves

Valve sizes 3/4" & 1" only available as Stainless Steel

*C = Carbon Stl Body, 316SS Trim

*S = 316SS Body & Trim

① C=Flow Pattern

MPF150 VALVE SPECIFICATIONS

- MPF150 Class 150
- Grounded Ball & Stem
- Full Port Ball Orifice
- Four-Bolt Actuator Mounting
- Multiple piece Stem Packing
- Carbon Steel (1-1/2" - 6") or Stainless Steel (3/4" - 6") Body
- Unique one piece Ball & Stem design
- Seats: TFM
- Max Temp: 475°F

ELECTRIC ACTUATOR FEATURES

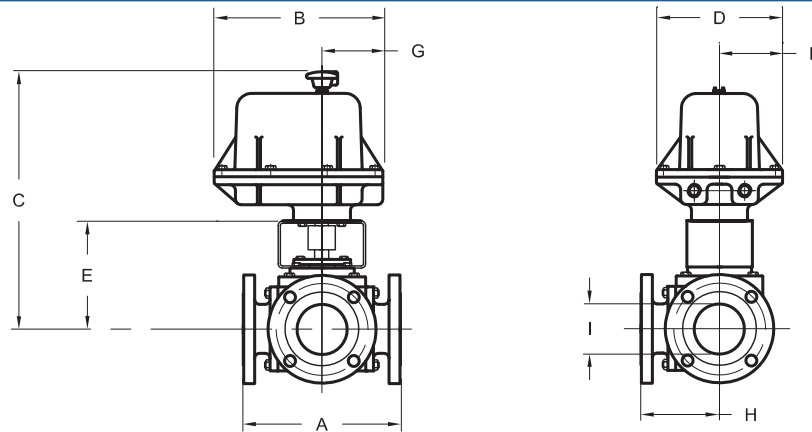
- K Series electric actuator
- Actuator speed: 25 sec.
- Most voltages available
- Quarter turn: 0-90° rotation
- NEMA 4/4X certified by UL labs
- ISO 5211 mounting standard
- Visual position indicator
- Self-locking drive train
- Mounts in any direction
- 1/2" NPT conduit connection
- CSA-NRTL /C and CE certified
- Temperature range: 0°F to 160°F

MPF150 B7A .75 - 2

Full port ball valve with electric actuator

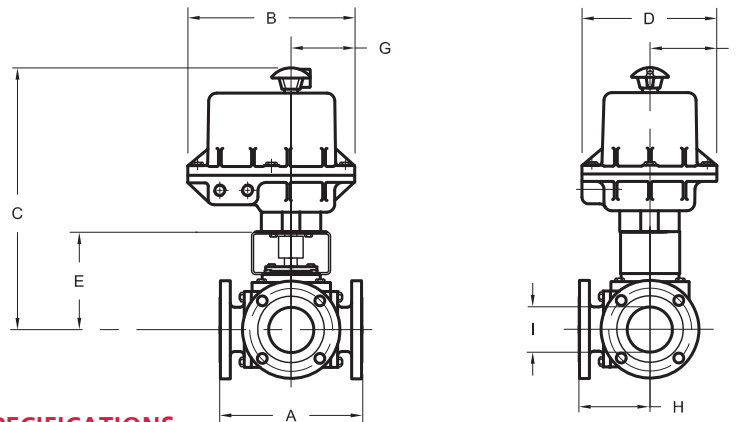
150# Flanged body TFM Seats

Actuators are sized for 150 psi pressure differential



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	C	D	E	F	G	H	I	Actuator	Wt. (lbs.)	Model No.
3/4"	6.65	8.25	13.12	6.25	5.62	3.12	3.75	3.33	.75	EM300_30	35.0	DMPF150 * F B7A ①
1"	7.30	8.25	13.16	6.25	5.66	3.12	3.75	3.65	1.00	EM300_30	39.0	EMPF150 * F B7A ①
1-1/2"	7.17	8.25	12.98	6.25	5.48	3.12	3.75	3.57	1.50	EM300_30	43.0	GMPF150 * F B7A ①



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	C	D	E	F	G	H	I	Actuator	Wt. (lbs.)	Model No.
2"	8.66	9.75	15.31	7.75	5.87	3.88	3.75	4.33	2.01	EM500_15	59.0	HMPF150 * F B7A ①

Note: Dimensions "C & "E" include a 3" high mounting bracket

*C = Carbon Stl Body, 316SS Trim

*S = 316SS Body & Trim

① C=Flow Pattern

MPF150 VALVE SPECIFICATIONS

- MPF150 Class 150
- Grounded Ball & Stem
- Full Port Ball Orifice
- Four-Bolt Actuator Mounting
- Multiple piece Stem Packing
- Carbon Steel (1-1/2" - 6") or Stainless Steel (3/4" - 6") Body
- Unique one piece Ball & Stem design
- Seats: TFM
- Max Temp: 475°F

ELECTRIC ACTUATOR FEATURES

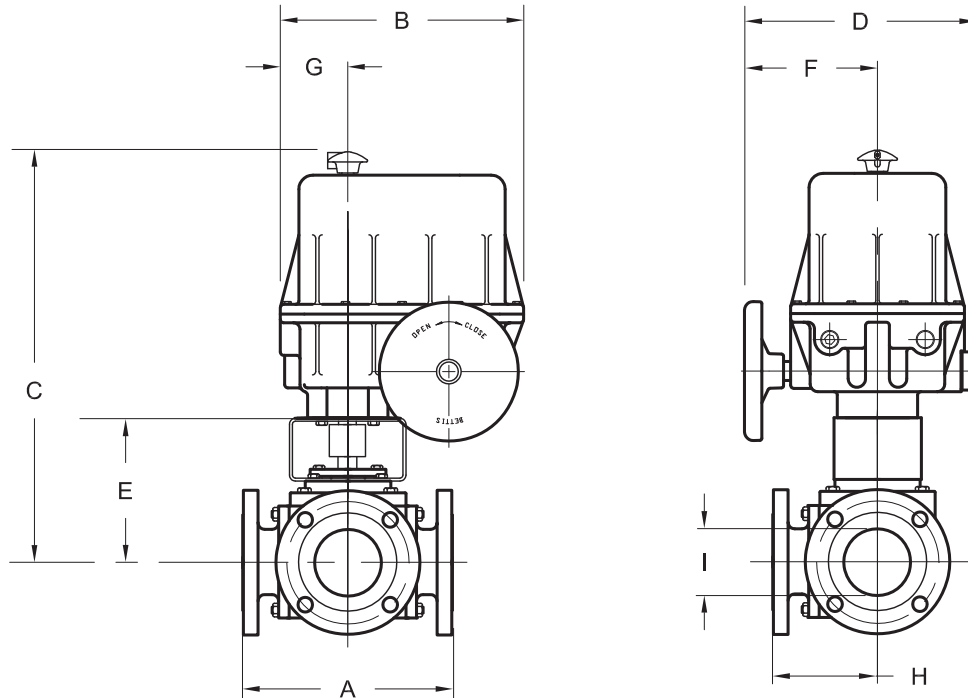
- B7 Series electric actuator
- NEMA 4, 4x, 7, & 9; CSA approved
- Weatherproof
- Class I Groups C and D, Div. 1
- Class II Groups E, F, & G
- (2) 1/2" NPT conduit entries
- Manual override
- Visual position indicator
- CSA certified
- Temperature range: 0°F to 175°F

MPF150 B7A 3 - 6

Full port ball valve with electric actuator

150# Flanged body TFM Seats

Actuators are sized for 150 psi pressure differential



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	C	D	E	F	G	H	I	Actuator	Wt. (lbs.)	Model No.
3"	11.26	14.00	23.00	13.31	7.62	7.62	3.88	5.62	3.00	EM820_18	242.0	DMPF150 * F B7A ①
4"	13.66	14.00	26.26	13.31	10.88	7.62	3.88	6.85	4.02	EM820_30	308.0	EMPF150 * F B7A ①
6"	16.77	14.00	27.88	13.31	12.50	7.62	3.88	8.47	5.98	EM840_72	430.0	GMPF150 * F B7A ①

Note: Dimensions "C" & "E" include a 4" high mounting bracket on 3" valve and a 6" high mounting bracket on 4" - 6" valves

*C = Carbon Stl Body, 316SS Trim

*S = 316SS Body & Trim

① C=Flow Pattern

MPF150 VALVE SPECIFICATIONS

- MPF150 Class 150
- Grounded Ball & Stem
- Full Port Ball Orifice
- Four-Bolt Actuator Mounting
- Multiple piece Stem Packing
- Carbon Steel (1-1/2" - 6") or Stainless Steel (3/4" - 6") Body
- Unique one piece Ball & Stem design
- Seats: TFM
- Max Temp: 475°F

ELECTRIC ACTUATOR FEATURES

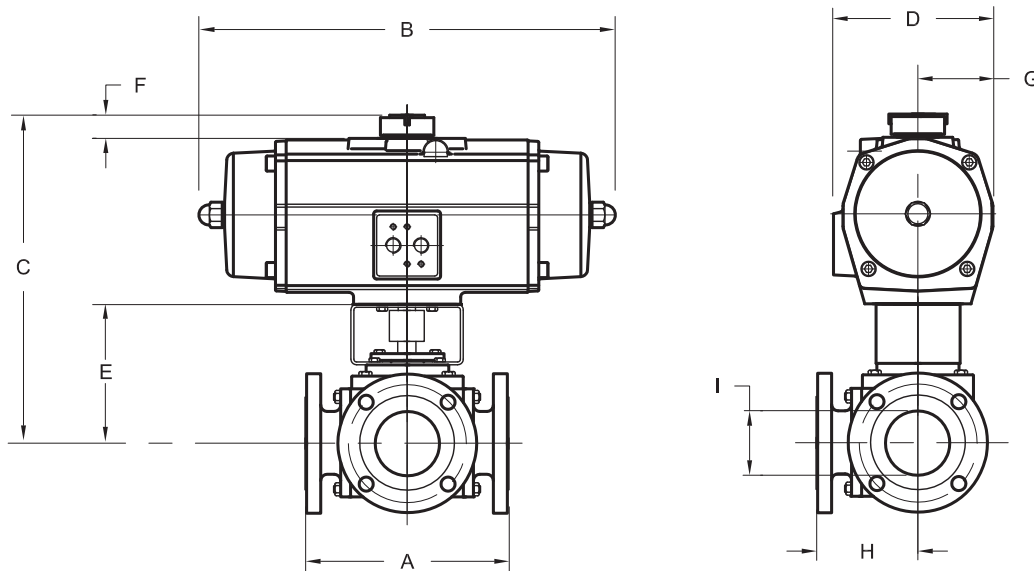
- B7 Series electric actuator
- NEMA 4, 4x, 7, & 9; CSA approved
- Weatherproof
- Class I Groups C and D, Div. 1
- Class II Groups E, F, & G
- (2) 1/2" NPT conduit entries
- Manual override
- Visual position indicator
- CSA certified
- Temperature range: 0°F to 175°F

MPF300 ESR 1.5 - 6

Full port ball valve with spring return pneumatic actuator

300# Flanged body TFM Seats

Actuators are sized for 150 psi pressure differential



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	C	D	E	F	G	H	I	Actuator	Wt. (lbs.)	Model No.
80 psig Minimum Actuator Air Supply = 8S												
1-1/2"	8.75	15.24	13.24	7.12	5.32	.79	3.41	3.82	1.57	ES350	77.3	GMPF300 * F E8S ① ②
2"	9.37	15.24	13.68	7.12	5.76	.79	3.41	4.69	1.97	ES350	82.3	HMPF300 * F E8S ① ②
3"	11.85	20.35	19.16	9.51	7.78	1.18	4.54	5.93	2.99	ES950	185.1	JMPF300 * F E8S ① ②
4"	15.12	25.08	23.71	10.81	10.84	1.18	5.21	7.56	3.94	ES1600	315.1	KMPF300 * F E8S ① ②
6"	18.43	32.83	29.23	15.35	13.09	1.18	7.48	9.21	5.91	PS4000	711.0	MMPF300 * F E8S ① ②
60 psig Minimum Actuator Air Supply = 6S												
1-1/2"	8.75	20.35	16.70	9.51	5.32	1.18	4.54	3.82	1.57	ES950-3	125.1	GMPF300 * F E6S ① ②
2"	9.37	20.35	17.14	9.51	5.76	1.18	4.54	4.69	1.97	ES950-3	130.1	HMPF300 * F E6S ① ②
3"	11.85	22.44	22.98	14.17	7.78	1.18	6.89	5.93	2.99	PS2500-10	294.0	JMPF300 * F E6S ① ②
4"	15.12	22.44	18.24	14.17	10.84	1.18	6.89	7.56	3.94	PS2500-3	364.0	KMPF300 * F E6S ① ②
6"												

Note: Dimensions "C" & "E" include a 3" high mounting bracket on 1-1/2" - 2" valves
 4" high mounting bracket on 3" valve & 6" high bracket on 4" - 6" valves

*C = Carbon Stl Body, 316SS Trim

*S = 316SS Body & Trim

① C=Flow Pattern

② C=Fail Close, O=Fail Open

MPF300 VALVE SPECIFICATIONS

- MPF300 Class 300
- Grounded Ball & Stem
- Full Port Ball Orifice
- Four-Bolt Actuator Mounting
- Multiple piece Stem Packing
- Carbon Steel or Stainless Steel Body
- Unique one piece Ball & Stem design
- Seats: TFM
- Max Temp: 475°F

PNEUMATIC ACTUATOR FEATURES

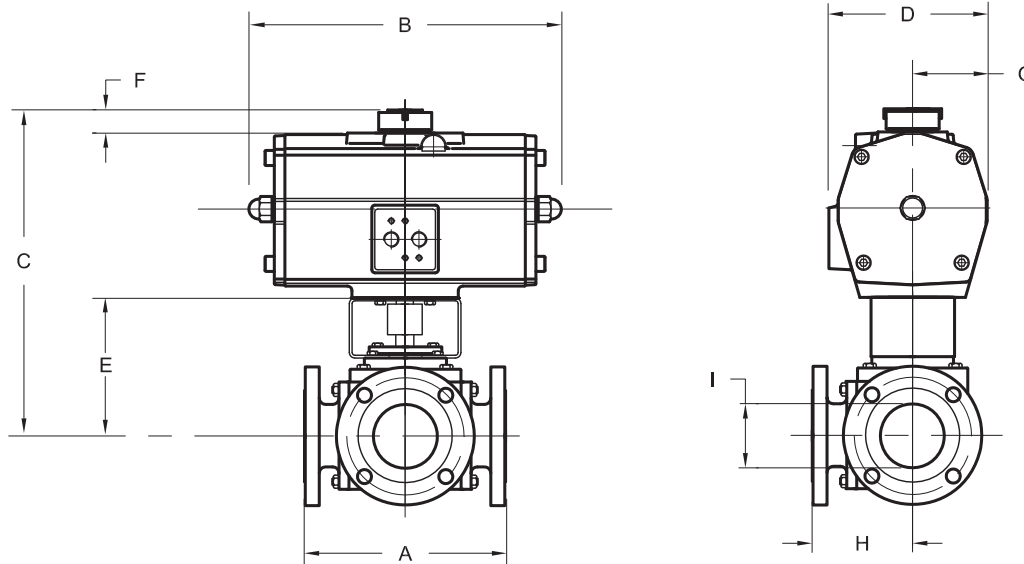
- E Series spring return rack and pinion pneumatic actuator
- Corrosion resistant coating
- NAMUR solenoid mounting pad, ISO 5211 mounting standard
- Visual position indicator
- High duty cycle, permanent lubrication
- Temperature range: -4°F to 175°F

MPF300 EDA 1.5 - 6

Full port ball valve with double acting pneumatic actuator

300# Flanged body TFM Seats

Actuators are sized for 150 psi pressure differential



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	C	D	E	F	G	H	I	Actuator	Wt. (lbs.)	Model No.
80 psig Minimum Actuator Air Supply = 8D												
1-1/2"	8.75	11.14	11.74	5.39	5.32	.79	2.52	3.82	1.57	ED200	52.8	GMPF300 * F E8D ①
2"	9.37	11.14	12.18	5.39	5.76	.79	2.52	4.69	1.97	ED200	57.8	HMPF300 * F E8D ①
3"	11.85	12.01	15.70	7.12	7.78	.79	3.41	5.93	2.99	ED350	122.9	JMPF300 * F E8D ①
4"	15.12	15.24	20.68	8.52	10.84	1.18	4.08	7.56	3.94	ED600	212.8	KMPF300 * F E8D ①
6"	18.43	14.88	28.29	14.17	13.09	1.18	6.89	9.21	5.91	PD2500	545.0	MMPF300 * F E8D ①
60 psig Minimum Actuator Air Supply = 6D												
1-1/2"	8.75	11.14	11.74	5.39	5.32	.79	2.52	3.82	1.57	ED200	52.8	GMPF300 * F E6D ①
2"	9.37	11.14	12.18	5.39	5.76	.79	2.52	4.69	1.97	ED200	57.8	HMPF300 * F E6D ①
3"	11.85	15.24	17.62	8.52	7.78	1.18	4.08	5.93	2.99	ED600	142.8	JMPF300 * F E6D ①
4"	15.12	16.69	22.22	9.51	10.84	1.18	4.54	7.56	3.94	ED950	228.2	KMPF300 * F E6D ①
6"	18.43	14.88	28.29	14.17	13.09	1.18	6.89	9.21	5.91	PD2500	545.0	KMPF300 * F E6D ①

Note: Dimensions "C" & "E" include a 3" high mounting bracket on 1-1/2" - 2" valves
 4" high mounting bracket on 3" valve & 6" high bracket on 4" - 6" valves

*C = Carbon Stl Body, 316SS Trim

*S = 316SS Body & Trim

① C=Flow Pattern

MPF300 VALVE SPECIFICATIONS

- MPF300 Class 300
- Grounded Ball & Stem
- Full Port Ball Orifice
- Four-Bolt Actuator Mounting
- Multiple piece Stem Packing
- Carbon Steel or Stainless Steel Body
- Unique one piece Ball & Stem design
- Seats: TFM
- Max Temp: 475°F

PNEUMATIC ACTUATOR FEATURES

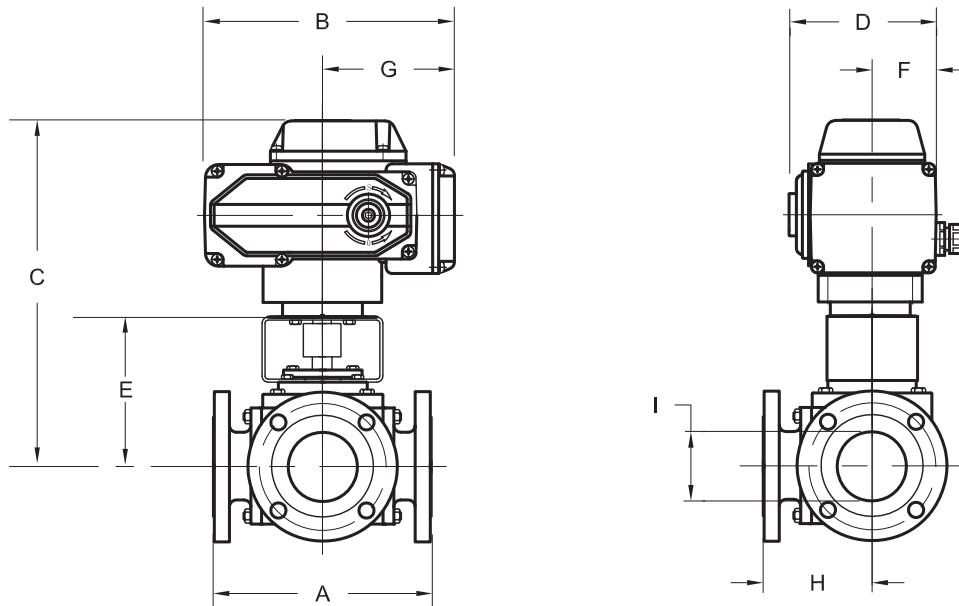
- E Series double acting rack and pinion pneumatic actuator
- Corrosion resistant coating
- NAMUR solenoid mounting pad, ISO 5211 mounting standard
- Visual position indicator
- High duty cycle, permanent lubrication
- Temperature range: -4°F to 175°F

MPF300 K4A 1.5 - 6

Full port ball valve with electric actuator

300# Flanged body TFM Seats

Actuators are sized for 150 psi pressure differential



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	C	D	E	F	G	H	I	Actuator	Wt. (lbs.)	Model No.
1-1/2"	8.75	10.10	12.60	6.16	5.32	2.46	5.25	3.82	1.50	UNIC 20A	58.0	GMPF300 * F K4A ①
2"	9.37	10.10	13.04	6.16	5.76	2.46	5.25	4.69	2.01	UNIC 20A	63.0	HMPF300 * F K4A ①
3"	11.85	15.00	16.99	9.53	7.78	4.13	7.85	5.93	3.00	UNIC 60A	146.2	JMPF300 * F K4A ①
4"	15.12	15.00	20.05	9.53	10.84	4.13	7.85	7.56	4.02	UNIC 100A	217.7	KMPF300 * F K4A ①
6"	18.43	15.00	22.30	9.98	13.09	4.13	7.85	9.21	5.98	UNIC 200A	472.9	MMPF300 * F K4A ①

Note: Dimensions "C" & "E" include a 3" high mounting bracket on 1-1/2" - 2" valves
 4" high mounting bracket on 3" valve & 6" high bracket on 4" - 6" valves

*C = Carbon Stl Body, 316SS Trim

*S = 316SS Body & Trim

① C=Flow Pattern

MPF300 VALVE SPECIFICATIONS

- MPF300 Class 300
- Grounded Ball & Stem
- Full Port Ball Orifice
- Four-Bolt Actuator Mounting
- Multiple piece Stem Packing
- Carbon Steel (1-1/2" - 6") or Stainless Steel (3/4" - 6") Body
- Unique one piece Ball & Stem design
- Seats: TFM
- Max Temp: 475°F

ELECTRIC ACTUATOR FEATURES

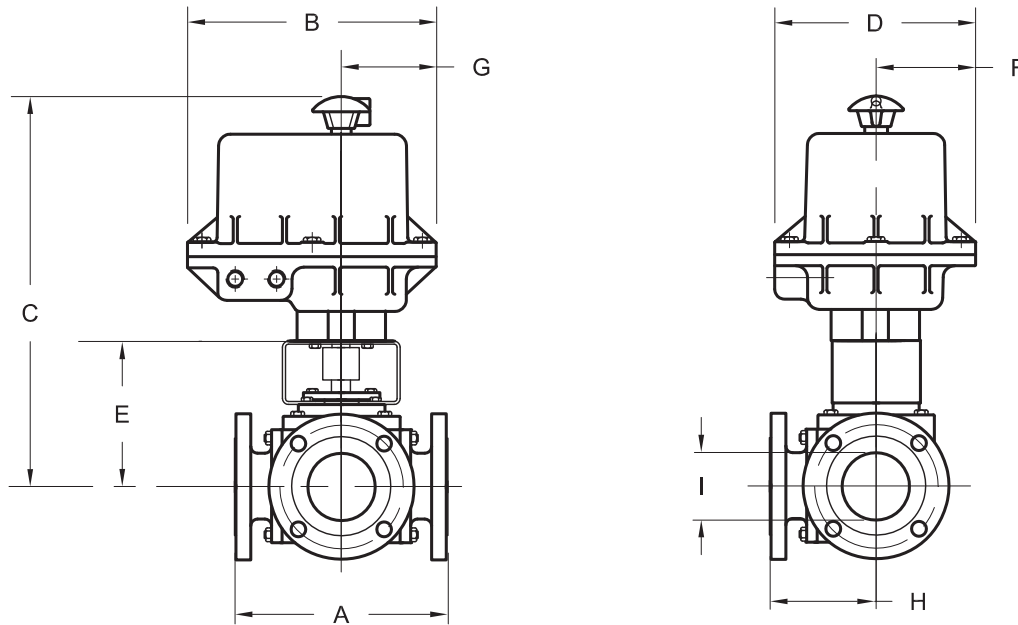
- K Series electric actuator
- Actuator speed: 25 sec.
- Most voltages available
- Quarter turn: 0-90° rotation
- NEMA 4/4X certified by UL labs
- ISO 5211 mounting standard
- Visual position indicator
- Self-locking drive train
- Mounts in any direction
- 1/2" NPT conduit connection
- CSA-NRTL /C and CE certified
- Temperature range: 0°F to 160°F

MPF300 B7A 1.5 - 2

Full port ball valve with electric actuator

300# Flanged body TFM Seats

Actuators are sized for 150 psi pressure differential



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	C	D	E	F	G	H	I	Actuator	Wt. (lbs.)	Model No.
1-1/2"	8.75	8.25	14.76	6.25	5.32	3.12	3.75	3.82	1.57	EM500_30	58.0	GMPF300 * F B7A ①
2"	9.37	9.75	15.20	7.75	5.76	3.88	3.75	4.69	1.97	EM500_15	63.0	HMPF300 * F B7A ①

Note: Dimensions "C" & "E" include a 3" high mounting bracket

*C = Carbon Stl Body, 316SS Trim

*S = 316SS Body & Trim

① C=Flow Pattern

MPF300 VALVE SPECIFICATIONS

- MPF300 Class 300
- Grounded Ball & Stem
- Full Port Ball Orifice
- Four-Bolt Actuator Mounting
- Multiple piece Stem Packing
- Carbon Steel (1-1/2" - 6") or Stainless Steel (3/4" - 6") Body
- Unique one piece Ball & Stem design
- Seats: TFM
- Max Temp: 475°F

ELECTRIC ACTUATOR FEATURES

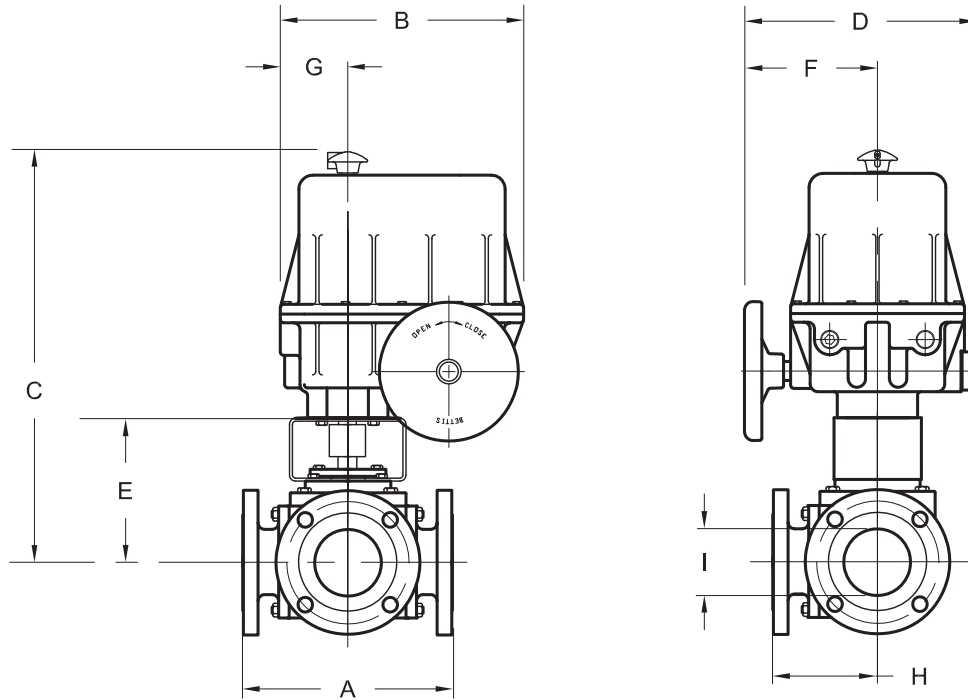
- B7 Series electric actuator
- NEMA 4, 4x, 7, & 9; CSA approved
- Weatherproof
- Class I Groups C and D, Div. 1
- Class II Groups E, F, & G
- (2) 1/2" NPT conduit entries
- Manual override
- Visual position indicator
- CSA certified
- Temperature range: 0°F to 175°F

MPF300 B7A 3 - 6

Full port ball valve with electric actuator

300# Flanged body TFM Seats

Actuators are sized for 150 psi pressure differential



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	C	D	E	F	G	H	I	Actuator	Wt. (lbs.)	Model No.
3"	11.26	14.00	23.16	13.31	7.78	7.62	3.88	7.20	2.99	EM820_18	260.0	DMPF300 * F B7A ①
4"	13.66	14.00	26.22	13.31	10.84	7.62	3.88	7.56	3.94	EM820_30	330.0	EMPF300 * F B7A ①
6"	16.77	14.00	28.47	13.31	13.09	7.62	3.88	9.21	5.91	EM840_72	580.0	GMPF300 * F B7A ①

Note: Dimensions "C" & "E" include a 4" high mounting bracket on 3" valve and a 6" high mounting bracket on 4" - 6" valves

*C = Carbon Stl Body, 316SS Trim

*S = 316SS Body & Trim

① C=Flow Pattern

MPF300 VALVE SPECIFICATIONS

- MPF300 Class 300
- Grounded Ball & Stem
- Full Port Ball Orifice
- Four-Bolt Actuator Mounting
- Multiple piece Stem Packing
- Carbon Steel (1-1/2" - 6") or Stainless Steel (3/4" - 6") Body
- Unique one piece Ball & Stem design
- Seats: TFM
- Max Temp: 475°F

ELECTRIC ACTUATOR FEATURES

- B7 Series electric actuator
- NEMA 4, 4x, 7, & 9; CSA approved
- Weatherproof
- Class I Groups C and D, Div. 1
- Class II Groups E, F, & G
- (2) 1/2" NPT conduit entries
- Manual override
- Visual position indicator
- CSA certified
- Temperature range: 0°F to 175°F

PTP Series

PVC 3-way Ball Valve



PTP Series valves can be used for flow diverting, mixing, or on/off isolation. They replace a Tee + 2 valve linkage assembly at reduced cost and space, along with shorter installation and maintenance time. The patented Dual Block® system allows the valve to excel in working conditions where vibrations and thermal expansion may affect the performance of ordinary ball valves. The system incorporates a union nut locking device on all three ports, which prevents back-off during severe service conditions.

An integral mounting flange and bracket allows for direct actuation and simple support, while a locking handle prevents improper positioning. The exclusive handle design can be equipped with an engineered block that locks the valve in open and closed positions, without increasing the overall valve dimension – critical for small diameter, small space applications.

FEATURES

- Patented seat stop carrier allows for in-line microadjustment of the ball seating, featuring o-ring cushioning to minimize wear and prevent seizing.
- Multifunctional handle provides compact design and precision jointing with the valve stem.
- Stem ball connection is fully machined after molding, giving very precise dimension tolerances. This provides reduced torque transmission and high mechanical resistance.
- Two O-rings assure perfect stem sealing.
- Red optical indicator at top of stem clearly shows the position of the ball ports.
- An integrated molded bracket for valve and pipeline mounting is standard.
- Integrated valve support and ISO actuator pads are available.

ACTUATOR CONFIGURATIONS

- Electric.
- Pneumatic (spring return).
- Pneumatic (double acting).
- Manual handle lever.

MAXIMUM PRESSURE

232 PSI (at 73°F)

TEMPERATURE RANGE

32°F to 140°F

MATERIALS OF CONSTRUCTION

Body:
PVC.

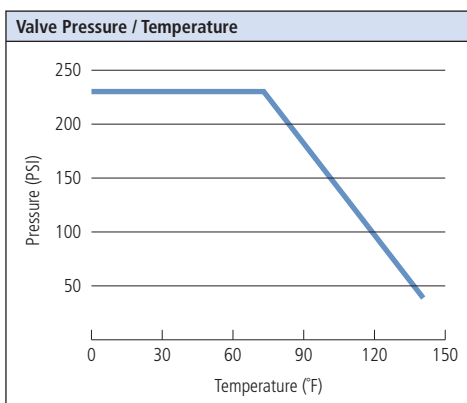
Seats:
PTFE.

Seals:
EPDM or Viton® (FKM).

SPECIFICATIONS

Connections:
1/2" to 2" NPT threaded or IPS socket.

Standards:
ASTM D1784, ASTM D2466, ASTM D2467, ASTM D2464, ASTM F1498 and ANSI B1.20.1.



PORT ARRANGEMENTS

L Port		T Port			
Flow Plan A	Flow Plan D	Flow Plan E	Flow Plan F	Flow Plan G	
Pos1	Pos1	Pos1	Pos1	Pos1	
Pos2	Pos2	Pos2	Pos2	Pos2	

PTP Series

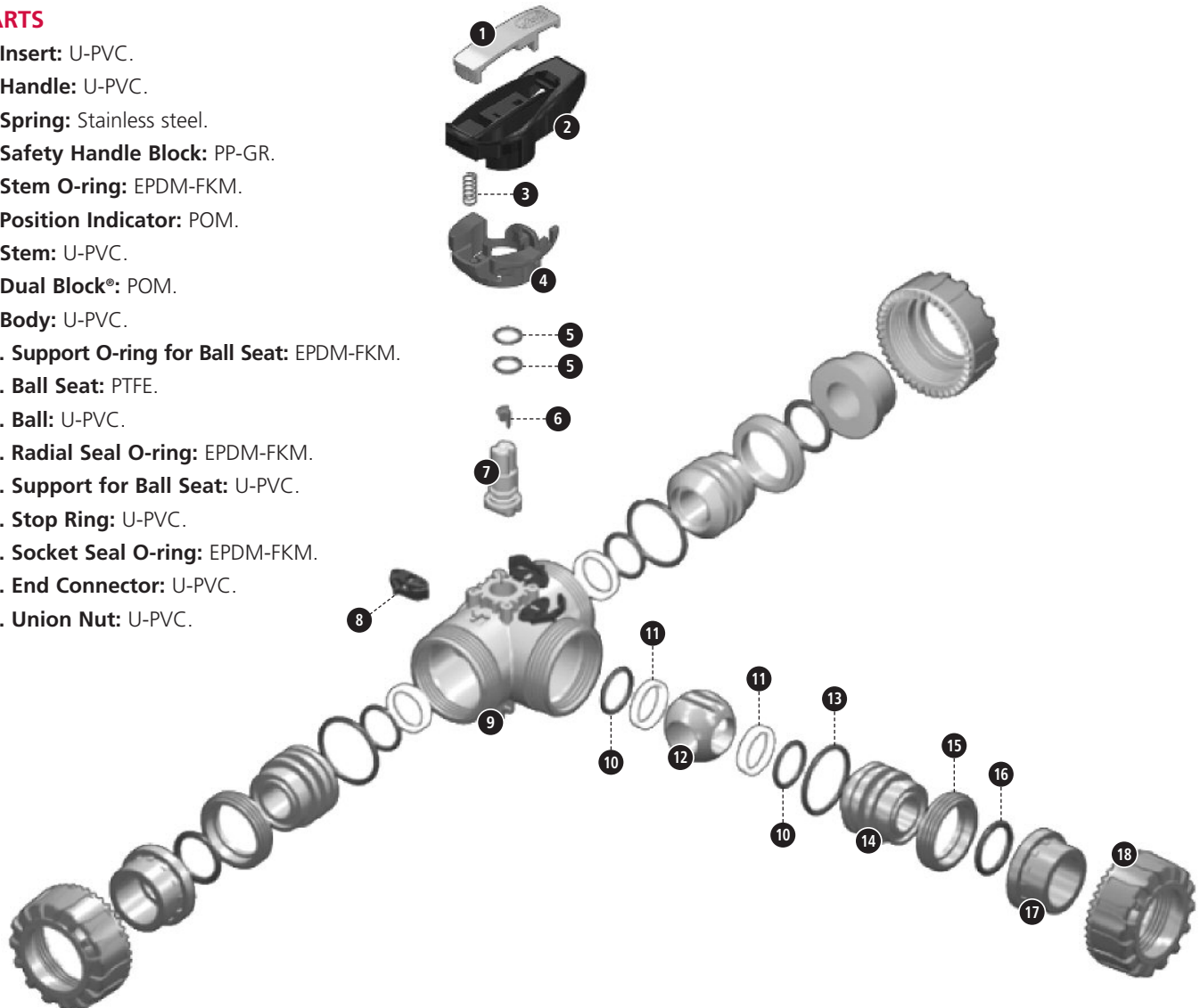
PVC 3-way ball valve
(1/2" to 2" sizes available)

CV FACTORS

Size	Cv (per Flow Plan)								
	A	D		E		F		G	
	Pos1 or Pos2	Pos1	Pos2	Pos1	Pos2	Pos1	Pos2	Pos1	Pos2
1/2"	5.11	3.85	2.45	2.45	3.85	4.55	13.7	13.7	4.55
3/4"	10.5	9.5	6.65	6.65	9.5	10.2	26.6	26.6	10.2
1"	18.6	14.4	9.8	9.8	14.4	17.2	53.2	53.2	17.2
1-1/4"	33.3	27.3	18.9	18.9	27.3	32.2	73.5	73.5	32.2
1-1/2"	43.3	33.3	23.1	23.1	33.3	42	119	119	42
2"	85.4	63	43.4	43.4	63	84	224	224	84

PARTS

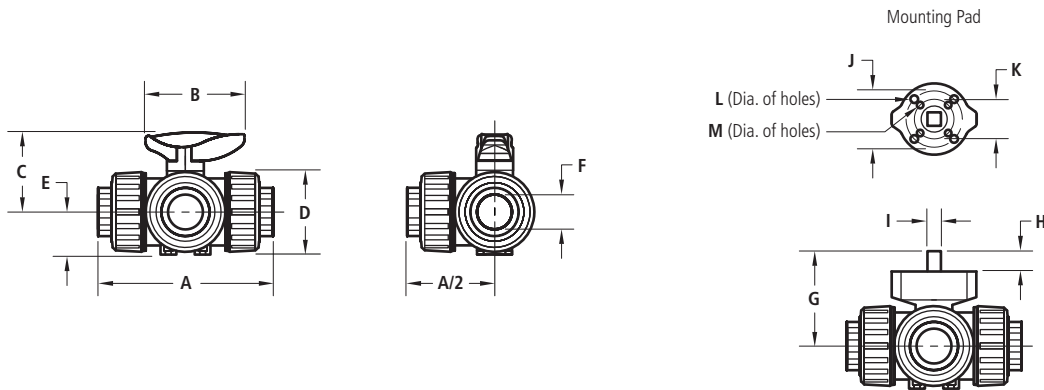
1. **Insert:** U-PVC.
2. **Handle:** U-PVC.
3. **Spring:** Stainless steel.
4. **Safety Handle Block:** PP-GR.
5. **Stem O-ring:** EPDM-FKM.
6. **Position Indicator:** POM.
7. **Stem:** U-PVC.
8. **Dual Block®:** POM.
9. **Body:** U-PVC.
10. **Support O-ring for Ball Seat:** EPDM-FKM.
11. **Ball Seat:** PTFE.
12. **Ball:** U-PVC.
13. **Radial Seal O-ring:** EPDM-FKM.
14. **Support for Ball Seat:** U-PVC.
15. **Stop Ring:** U-PVC.
16. **Socket Seal O-ring:** EPDM-FKM.
17. **End Connector:** U-PVC.
18. **Union Nut:** U-PVC.



PTPM Series

Full port PVC ball valve

(NPT threaded or IPS socket end connections)



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	C	D	E	F	Wt. (lbs.)	Model No.
1/2"	5.20	2.64	2.13	2.13	1.14	.84	.68	CPTP○○○M
3/4"	6.27	3.35	2.56	2.56	1.36	1.05	1.21	DPTP○○○M
1"	6.85	3.35	2.74	2.74	1.54	1.32	1.74	EPTP○○○M
1-1/4"	8.07	4.25	3.25	3.25	1.81	1.66	2.81	FPTP○○○M
1-1/2"	8.96	4.25	3.50	3.50	2.05	1.90	3.66	GPTP○○○M
2"	10.51	5.28	4.25	4.25	2.44	2.38	6.17	HPTP○○○M

◎ Seal Material: **E** = EPDM; **V** = Viton®. ◎ End Connection: **N** = NPT; **S** = Glued Socket. ◎ Flow Pattern: **A, D, E, F, G**.

MOUNTING DIMENSIONS & SPECIFICATIONS

Size	G	H	I	J	K	L	M
1/2"	2.28	.47	.43	F04	F03	.22	.22
3/4"	2.89	.47	.43	F05 / F04	F03	.26 / .22	.22
1"	2.91	.47	.43	F05 / F04	F03	.26 / .22	.22
1-1/4"	3.82	.63	.43 / .55	F05	F05	.26	.26
1-1/2"	4.09	.63	.43 / .55	F05	F05	.26	.26
2"	4.49	.63	.43 / .55	F07	F05	.33	.26

PTP VALVE FEATURES

- Full port PVC body and ball.
- Bow out proof stem.
- NPT and socket weld end connections.
- PTFE seals.
- Viton® or EPDM stem and body seals.
- Optional actuator mounting block.
- Pressure range: 232 PSI (at 73°F).

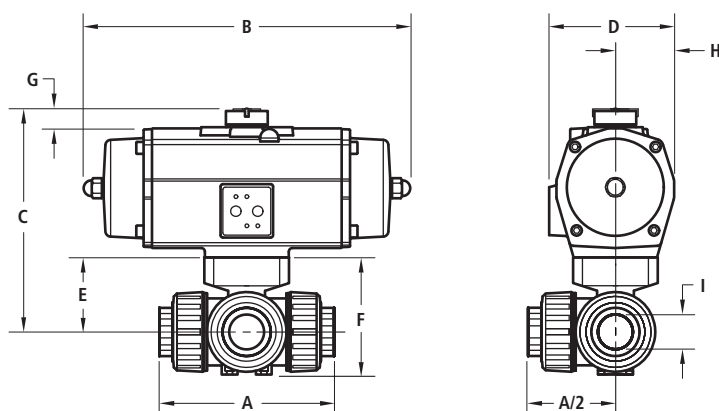
LEVER HANDLE FEATURES

- Locking device.

PTPESR Series

Full port PVC ball valve with spring return pneumatic actuator

(NPT threaded or IPS socket end connections, actuators are sized for 150 PSI pressure differential)



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	C	D	E	F	G	H	I	Actuator	Wt. (lbs.)	Model No.
80 PSI Minimum Actuator Air Supply = 85												
1/2"	5.20	4.65	6.25	2.36	3.10	4.24	.79	1.06	.84	ES12	3.5	CPTPO○○○E85○
3/4"	6.27	6.77	6.83	3.26	2.89	4.25	.79	1.46	1.05	ES25	4.9	DPTPO○○○E85○
1"	6.85	6.77	6.85	3.26	2.91	4.45	.79	1.46	1.32	ES25	5.5	EPTPO○○○E85○
1-1/4"	8.07	6.77	7.76	3.26	3.82	5.63	.79	1.46	1.66	ES25	6.5	FPTPO○○○E85○
1-1/2"	8.96	6.77	8.03	3.26	4.09	6.14	.79	1.46	1.90	ES25	7.4	GPTPO○○○E85○
2"	10.51	8.03	8.94	3.78	4.49	6.93	.79	1.70	2.38	ES40	11.5	HPTPO○○○E85○
60 PSI Minimum Actuator Air Supply = 65												
1/2"	5.20	4.65	6.25	2.36	3.10	4.24	.79	1.06	.84	ES12	3.5	CPTPO○○○E65○
3/4"	6.27	6.77	6.83	3.26	2.89	4.25	.79	1.46	1.05	ES25	4.9	DPTPO○○○E65○
1"	6.85	6.77	6.85	3.26	2.91	4.45	.79	1.46	1.32	ES25	5.5	EPTPO○○○E65○
1-1/4"	8.07	6.77	7.76	3.26	3.82	5.63	.79	1.46	1.66	ES25	6.5	FPTPO○○○E65○
1-1/2"	8.96	8.03	8.54	3.78	4.09	6.14	.79	1.70	1.90	ES40	9.0	GPTPO○○○E65○
2"	10.51	9.80	9.41	4.19	4.49	6.93	.79	1.93	2.38	ES65	14.1	HPTPO○○○E65○

○ Seal Material: **E** = EPDM; **V** = Viton®. ○ End Connection: **N** = NPT; **S** = Glued Socket. ○ Flow Pattern: **A, D, E, F, G**. ○ Fail Position: **1, 2**.

Note: 1/2" size valve is assembled with fabricated mounting kit and not direct mount.

PTP VALVE FEATURES

- Full port PVC body and ball.
- Bow out proof stem.
- NPT and socket weld end connections.
- PTFE seals.
- Viton® or EPDM stem and body seals.
- Optional actuator mounting block.
- Pressure range: 232 PSI (at 73°F).

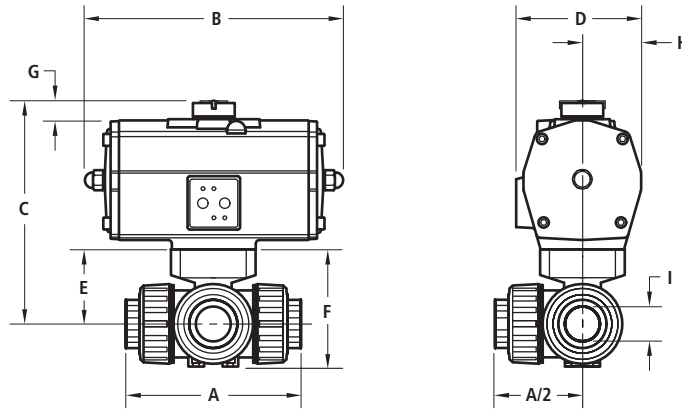
PNEUMATIC ACTUATOR FEATURES

- E Series spring return rack and pinion actuator.
- Corrosion resistant coating.
- NAMUR solenoid mounting pad, ISO 5211 mounting standard.
- Visual position indicator.
- High duty cycle, permanent lubrication.
- Temperature range: -4°F to 175°F.

PTPEDA Series

Full port PVC ball valve with double acting pneumatic actuator

(NPT threaded or IPS socket end connections, actuators are sized for 150 PSI pressure differential)



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	C	D	E	F	G	H	I	Actuator	Wt. (lbs.)	Model No.
80 PSI Minimum Actuator Air Supply = 8D												
1/2"	5.20	4.06	6.25	2.36	2.28	3.42	.79	1.06	.84	ED12	3.3	CPTP○○○○E8D
3/4"	6.27	6.26	6.83	3.26	2.89	4.25	.79	1.46	1.05	ED25	4.1	DPTP○○○○E8D
1"	6.85	6.26	6.85	3.26	2.91	4.45	.79	1.46	1.32	ED25	4.6	EPTP○○○○E8D
1-1/4"	8.07	6.26	7.76	3.26	3.82	5.63	.79	1.46	1.66	ED25	5.7	FPTP○○○○E8D
1-1/2"	8.96	6.26	8.03	3.26	4.09	6.14	.79	1.46	1.90	ED25	6.6	GPTP○○○○E8D
2"	10.51	7.09	8.94	3.78	4.49	6.93	.79	1.70	2.38	ED40	10.2	HPTP○○○○E8D
60 PSI Minimum Actuator Air Supply = 6D												
1/2"	5.20	4.06	6.25	2.36	2.28	3.42	.79	1.06	.84	ED12	3.3	CPTP○○○○E6D
3/4"	6.27	6.26	6.83	3.26	2.89	4.25	.79	1.46	1.05	ED25	4.1	DPTP○○○○E6D
1"	6.85	6.26	6.85	3.26	2.91	4.45	.79	1.46	1.32	ED25	4.6	EPTP○○○○E6D
1-1/4"	8.07	6.26	7.76	3.26	3.82	5.63	.79	1.46	1.66	ED25	5.7	FPTP○○○○E6D
1-1/2"	8.96	6.26	8.03	3.26	4.09	6.14	.79	1.46	1.90	ED25	6.6	GPTP○○○○E6D
2"	10.51	7.09	8.94	3.78	4.49	6.93	.79	1.70	2.38	ED40	10.2	HPTP○○○○E6D

○ Seal Material: **E** = EPDM; **V** = Viton®. ○ End Connection: **N** = NPT; **S** = Glued Socket. ○ Flow Pattern: **A, D, E, F, G**.
 Note: 1/2" size valve is assembled with fabricated mounting kit and not direct mount.

PTP VALVE FEATURES

- Full port PVC body and ball.
- Bow out proof stem.
- NPT and socket weld end connections.
- PTFE seals.
- Viton® or EPDM stem and body seals.
- Optional actuator mounting block.
- Pressure range: 232 PSI (at 73°F).

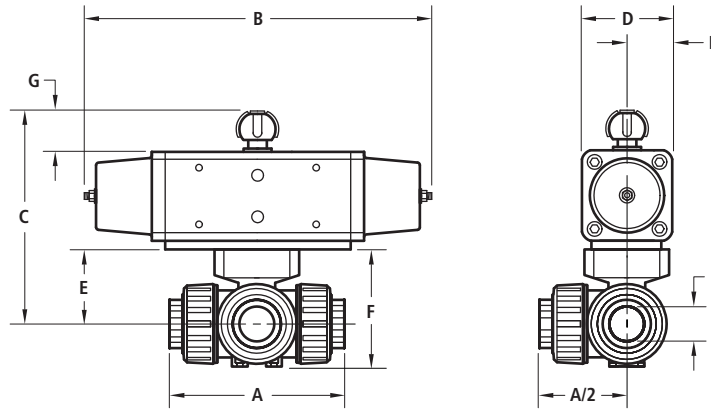
PNEUMATIC ACTUATOR FEATURES

- E Series double acting rack and pinion actuator.
- Corrosion resistant coating.
- NAMUR solenoid mounting pad, ISO 5211 mounting standard.
- Visual position indicator.
- High duty cycle, permanent lubrication.
- Temperature range: -4°F to 175°F.

PTPOSR Series

Full port PVC ball valve with spring return pneumatic actuator

(NPT threaded or IPS socket end connections, actuators are sized for 150 PSI pressure differential)



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	C	D	E	F	G	H	I	Actuator	Wt. (lbs.)	Model No.
80 PSI Minimum Actuator Air Supply = 8S												
1/2"	5.20	9.45	5.82	2.56	2.28	3.42	.79	1.28	.84	PS030	5.1	CPTPⓈⓈⓈⓈ08SⓈ
3/4"	6.27	9.45	6.43	2.56	2.89	4.25	.79	1.28	1.05	PS030	5.6	DPTPⓈⓈⓈⓈ08SⓈ
1"	6.85	9.45	6.45	2.56	2.91	4.45	.79	1.28	1.32	PS030	6.1	EPTPⓈⓈⓈⓈ08SⓈ
1-1/4"	8.07	9.45	7.36	2.56	3.82	5.63	.79	1.28	1.66	PS030	7.2	FPTPⓈⓈⓈⓈ08SⓈ
1-1/2"	8.96	9.45	7.63	2.56	4.09	6.14	.79	1.28	1.90	PS030	8.1	GPTPⓈⓈⓈⓈ08SⓈ
2"	10.51	11.58	8.33	2.83	4.49	6.93	.79	1.41	2.38	PS045	11.5	HPTPⓈⓈⓈⓈ08SⓈ
60 PSI Minimum Actuator Air Supply = 6S												
1/2"	5.20	9.45	5.82	2.56	2.28	3.42	.79	1.28	.84	PS030	5.1	CPTPⓈⓈⓈⓈ06SⓈ
3/4"	6.27	9.45	6.43	2.56	2.89	4.25	.79	1.28	1.05	PS030	5.6	DPTPⓈⓈⓈⓈ06SⓈ
1"	6.85	9.45	6.45	2.56	2.91	4.45	.79	1.28	1.32	PS030	6.1	EPTPⓈⓈⓈⓈ06SⓈ
1-1/4"	8.07	9.45	7.36	2.56	3.82	5.63	.79	1.28	1.66	PS030	7.2	FPTPⓈⓈⓈⓈ06SⓈ
1-1/2"	8.96	9.45	7.63	2.56	4.09	6.14	.79	1.28	1.90	PS030	8.1	GPTPⓈⓈⓈⓈ06SⓈ
2"	10.51	11.58	8.33	2.83	4.49	6.93	.79	1.41	2.38	PS045	11.5	HPTPⓈⓈⓈⓈ06SⓈ

Ⓢ Seal Material: **E** = EPDM; **V** = Viton®. Ⓢ End Connection: **N** = NPT; **S** = Glued Socket. Ⓢ Flow Pattern: **A, D, E, F, G**. Ⓢ Fail Position: **1, 2**.

PTP VALVE FEATURES

- Full port PVC body and ball.
- Bow out proof stem.
- NPT and socket weld end connections.
- PTFE seals.
- Viton® or EPDM stem and body seals.
- Optional actuator mounting block.
- Pressure range: 232 PSI (at 73°F).

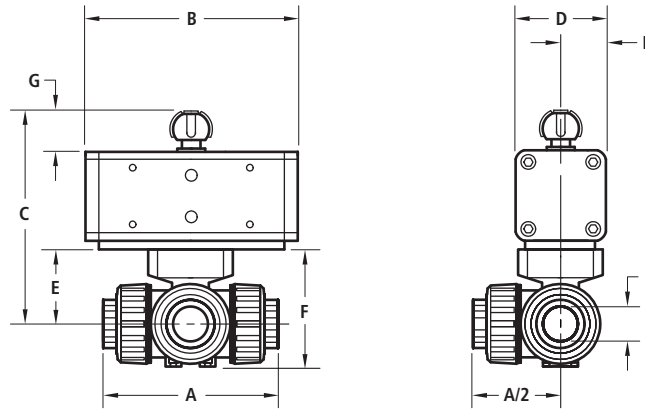
PNEUMATIC ACTUATOR FEATURES

- O Series spring return pneumatic actuator.
- Corrosion resistant coating.
- NAMUR solenoid mounting pad, ISO 5211 mounting standard.
- Visual position indicators.
- High duty cycle, permanent lubrication.
- Temperature range: -4°F to 175°F.

PTPODA Series

Full port PVC ball valve with double acting pneumatic actuator

(NPT threaded or IPS socket end connections, actuators are sized for 150 PSI pressure differential)



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	C	D	E	F	G	H	I	Actuator	Wt. (lbs.)	Model No.
80 PSI Minimum Actuator Air Supply = 8D												
1/2"	5.20	5.67	5.65	2.36	2.28	3.42	.79	1.18	.84	PD045	3.5	CPTP○○○○08D
3/4"	6.27	5.67	6.26	2.36	2.89	4.25	.79	1.18	1.05	PD045	4.0	DPTP○○○○08D
1"	6.85	5.67	6.28	2.36	2.91	4.45	.79	1.18	1.32	PD045	4.5	EPTP○○○○08D
1-1/4"	8.07	5.67	7.19	2.36	3.82	5.63	.79	1.18	1.66	PD045	5.6	FPTP○○○○08D
1-1/2"	8.96	5.67	7.46	2.36	4.09	6.14	.79	1.18	1.90	PD045	6.5	GPTP○○○○08D
2"	10.51	6.65	8.33	2.83	4.49	6.93	.79	1.41	2.38	PD090	10.3	HPTP○○○○08D
60 PSI Minimum Actuator Air Supply = 6D												
1/2"	5.20	5.67	5.65	2.36	2.28	3.42	.79	1.18	.84	PD045	3.5	CPTP○○○○06D
3/4"	6.27	5.67	6.26	2.36	2.89	4.25	.79	1.18	1.05	PD045	4.0	DPTP○○○○06D
1"	6.85	5.67	6.28	2.36	2.91	4.45	.79	1.18	1.32	PD045	4.5	EPTP○○○○06D
1-1/4"	8.07	5.67	7.19	2.36	3.82	5.63	.79	1.18	1.66	PD045	5.6	FPTP○○○○06D
1-1/2"	8.96	5.67	7.46	2.36	4.09	6.14	.79	1.18	1.90	PD045	6.5	GPTP○○○○06D
2"	10.51	6.65	8.33	2.83	4.49	6.93	.79	1.41	2.38	PD090	10.3	HPTP○○○○06D

○ Seal Material: **E** = EPDM; **V** = Viton®. ○ End Connection: **N** = NPT; **S** = Glued Socket. ○ Flow Pattern: **A, D, E, F, G**.

PTP VALVE FEATURES

- Full port PVC body and ball.
- Bow out proof stem.
- NPT and socket weld end connections.
- PTFE seals.
- Viton® or EPDM stem and body seals.
- Optional actuator mounting block.
- Pressure range: 232 PSI (at 73°F).

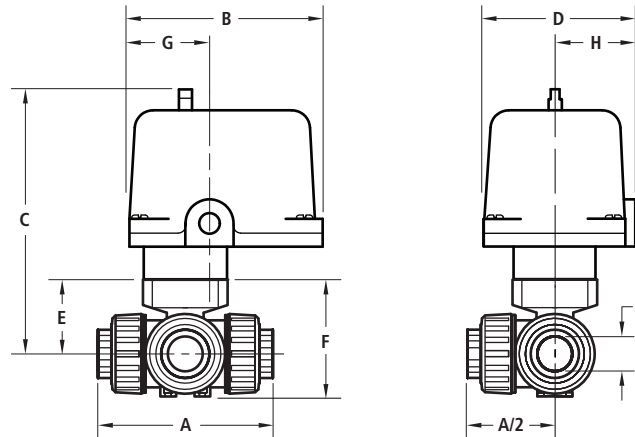
PNEUMATIC ACTUATOR FEATURES

- O Series double acting pneumatic actuator.
- Corrosion resistant coating.
- NAMUR solenoid mounting pad, ISO 5211 mounting standard.
- Visual position indicators.
- High duty cycle, permanent lubrication.
- Temperature range: -4°F to 175°F.

PTPR4 Series

Full port PVC ball valve with electric actuator, NEMA 4, 4X

(NPT threaded or IPS socket end connections, actuators are sized for 150 PSI pressure differential)



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	C	D	E	F	G	H	I	Actuator	Wt. (lbs.)	Model No.
1/2"	5.20	5.95	8.33	4.40	2.28	3.42	2.48	2.20	.84	R300 (9 sec.)	6.7	CPTP⊙⊙⊙R4⊙
3/4"	6.27	5.95	8.94	4.40	2.89	4.25	2.48	2.20	1.05	R300 (9 sec.)	7.2	DPTP⊙⊙⊙R4⊙
1"	6.85	5.95	8.96	4.40	2.91	4.45	2.48	2.20	1.32	R300 (9 sec.)	7.7	EPTP⊙⊙⊙R4⊙
1-1/4"	8.07	5.95	9.87	4.40	3.82	5.63	2.48	2.20	1.66	R300 (9 sec.)	8.8	FPTP⊙⊙⊙R4⊙
1-1/2"	8.96	5.95	10.14	4.40	4.09	6.14	2.48	2.20	1.90	R300 (9 sec.)	9.7	GPTP⊙⊙⊙R4⊙
2"	10.51	5.95	10.54	4.40	4.09	6.93	2.48	2.20	2.38	R300 (9 sec.)	12.2	HPTP⊙⊙⊙R4⊙

⊙ Seal Material: **E** = EPDM; **V** = Viton®. ⊙ End Connection: **N** = NPT; **S** = Glued Socket. ⊙ Flow Pattern: **A, D, E, F, G**.
 ⊙ Voltage: **A** = 120 VAC; **B** = 24 VDC; **C** = 220 VAC; **E** = 24 VAC; **F** = 12 VDC.

PTP VALVE FEATURES

- Full port PVC body and ball.
- Bow out proof stem.
- NPT and socket weld end connections.
- PTFE seals.
- Viton® or EPDM stem and body seals.
- Optional actuator mounting block.
- Pressure range: 232 PSI (at 73°F).

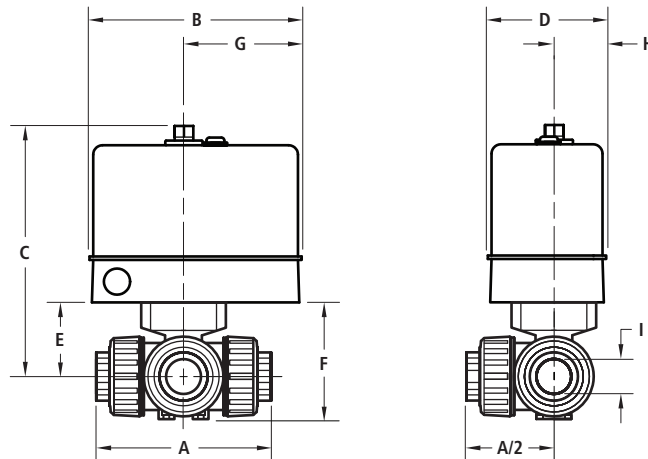
ELECTRIC ACTUATOR FEATURES

- R Series electric actuator.
- NEMA 4, 4X.
- Voltages available: 120 VAC, 12 VDC, 24 VDC.
- Duty cycle: 25% at 120 VAC, 100% at DC units.
- ISO 5211 universal mounting.
- Manual override.
- Permanent lubrication.
- Visual position indicator.
- Temperature range: 0°F to 150°F.

PTPV4 Series

Full port PVC ball valve with electric actuator, NEMA 4, 4X

(NPT threaded or IPS socket end connections, actuators are sized for 150 PSI pressure differential)



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	C	D	E	F	G	H	I	Actuator	Wt. (lbs.)	Model No.
1/2"	5.20	5.50	6.51	3.00	2.28	3.42	3.06	1.38	.84	EV1S1V1	5.7	CPTP○○○V4○
3/4"	6.27	5.50	7.12	3.00	2.89	4.25	3.06	1.38	1.05	EV1S1V1	6.2	DPTP○○○V4○
1"	6.85	5.50	7.14	3.00	2.91	4.45	3.06	1.38	1.32	EV1S1V1	6.7	EPTP○○○V4○
1-1/4"	8.07	5.50	8.05	3.00	3.82	5.63	3.06	1.38	1.66	EV1S1V1	7.8	FPTP○○○V4○
1-1/2"	8.96	5.50	8.32	3.00	4.09	6.14	3.06	1.38	1.90	EV1S1V1	8.7	GPTP○○○V4○
2"	10.51	5.50	8.72	3.00	4.09	6.93	3.06	1.38	2.38	EV3S1V1	11.2	HPTP○○○V4○

○ Seal Material: **E** = EPDM; **V** = Viton®. ○ End Connection: **N** = NPT; **S** = Glued Socket. ○ Flow Pattern: **A, D, E, F, G**.
 ○ Voltage: **A** = 120 VAC; **B** = 24 VDC; **C** = 220 VAC; **E** = 24 VAC; **F** = 12 VDC.

PTP VALVE FEATURES

- Full port PVC body and ball.
- Bow out proof stem.
- NPT and socket weld end connections.
- PTFE seals.
- Viton® or EPDM stem and body seals.
- Optional actuator mounting block.
- Pressure range: 232 PSI (at 73°F).

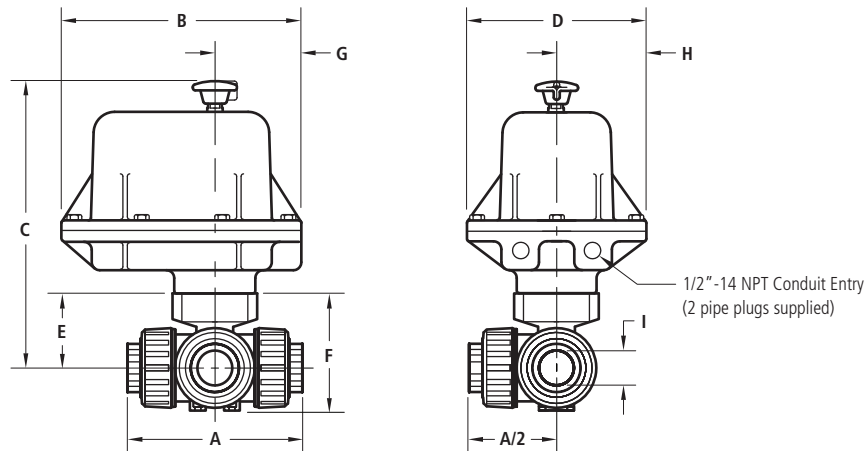
ELECTRIC ACTUATOR FEATURES

- V Series electric actuator.
- NEMA 4, 4X.
- Voltages available: 120 VAC, 220 VAC, 24 VAC, 12 VDC, 24VDC.
- Duty cycle: 25% at 120 VAC (EV1), 75% at 120 VAC (EV3, NV6), 100% at DC units.
- ISO 5211 universal mounting.
- Manual override.
- Permanent lubrication.
- Visual position indicator.
- Temperature range: 0°F to 160°F.

PTPB7 Series 1/2" to 1-1/4" Sizes

Full port PVC ball valve with explosion proof electric actuator, NEMA 7, 120 VAC

(NPT threaded or IPS socket end connections, actuators are sized for 150 PSI pressure differential)



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	C	D	E	F	G	H	I	Actuator	Wt. (lbs.)	Model No.
1/2"	5.20	8.25	9.78	6.25	2.28	3.42	3.00	3.12	.84	EM300-4	12.7	CPTP⊙⊙⊙B7
3/4"	6.27	8.25	10.82	6.25	2.89	4.25	3.00	3.12	1.05	EM300-4	13.2	DPTP⊙⊙⊙B7
1"	6.85	8.25	11.00	6.25	2.91	4.45	3.00	3.12	1.32	EM300-4	13.7	EPTP⊙⊙⊙B7
1-1/4"	8.07	8.25	11.23	6.25	3.82	5.63	3.00	3.12	1.66	EM300-4	14.8	FPTP⊙⊙⊙B7

⊙ Seal Material: **E** = EPDM; **V** = Viton®. ⊙ End Connection: **N** = NPT; **S** = Glued Socket. ⊙ Flow Pattern: **A, D, E, F, G**.
 Note: 3/4" to 1-1/4" size valves are assembled with fabricated mounting kit and not direct mount.

PTP VALVE FEATURES

- Full port PVC body and ball.
- Bow out proof stem.
- NPT and socket weld end connections.
- PTFE seals.
- Viton® or EPDM stem and body seals.
- Optional actuator mounting block.
- Pressure range: 232 PSI (at 73°F).

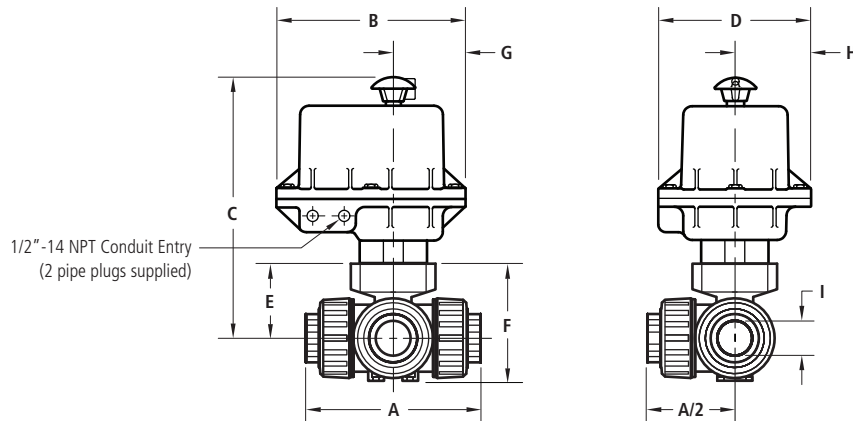
ELECTRIC ACTUATOR FEATURES

- B7 Series electric actuator.
- Actuator speed: 15 sec.
- NEMA 4, 4x, 7 and 9; CSA approved.
- Weatherproof.
- Class I Groups C and D, Div. 1.
- Class II Groups E, F and G.
- (2) 1/2" NPT conduit entries.
- Manual override.
- Visual position indicator.
- CSA certified.
- Temperature range: 0°F to 160°F.

PTPB7 Series 1-1/2" to 2" Sizes

Full port PVC ball valve with explosion proof electric actuator, NEMA 7, 120 VAC

(NPT threaded or IPS socket end connections, actuators are sized for 150 PSI pressure differential)



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	C	D	E	F	G	H	I	Actuator	Wt. (lbs.)	Model No.
1-1/2"	8.96	9.75	13.53	7.75	4.09	6.14	3.75	3.88	1.90	EM250-5	21.7	GPTP⊙⊙⊙B7
2"	10.51	9.75	13.93	7.75	4.09	6.93	3.75	3.88	2.38	EM250-5	24.2	HPTP⊙⊙⊙B7

⊙ Seal Material: **E** = EPDM; **V** = Viton®. ⊙ End Connection: **N** = NPT; **S** = Glued Socket. ⊙ Flow Pattern: **A, D, E, F, G**.

PTP VALVE FEATURES

- Full port PVC body and ball.
- Bow out proof stem.
- NPT and socket weld end connections.
- PTFE seals.
- Viton® or EPDM stem and body seals.
- Optional actuator mounting block.
- Pressure range: 232 PSI (at 73°F).

ELECTRIC ACTUATOR FEATURES

- B7 Series electric actuator.
- Actuator speed: 15 sec.
- NEMA 4, 7 and 9; CSA approved.
- Weatherproof.
- Class I Groups C and D, Div. 1.
- Class II Groups E, F and G.
- (2) 1/2" NPT conduit entries.
- Manual override.
- Visual position indicator.
- CSA certified.
- Temperature range: 0°F to 160°F.

FE Series

PVC Wafer Style Butterfly Valve



FE Series butterfly valves incorporate many features of our industrial FK valve, yet the all PVC construction and EPDM liner make this valve the perfect choice for water and light industrial applications. This versatile valve features double self-lubricating seals, direct actuator mount capability, and the option of either a lever handle or mounted gear box. Inserting stainless steel lugs into special molded features in the body allows for end of line installation.

FEATURES

- ISO dimensions for direct mounting of actuators.
- Trapezoidal elastomeric liner provides a bubble tight seal while keeping break-away torque at an absolute minimum.
- Liner completely isolates valve body from process flow and functions as a flange gasket on both sides of the valve.
- Body cavity features special channeling to prevent liner slippage and compression.
- PTFE seated O-ring shaft seals.

MATERIALS OF CONSTRUCTION

Seats and Seals:

EPDM.

Disc and Body:

PVC.

ACTUATOR CONFIGURATIONS

- Electric.
- Pneumatic (spring return).
- Pneumatic (double acting).
- Manual handle lever.
- Manual geared hand wheel.

MAXIMUM PRESSURE

232 PSI (at 73°F): 1-1/2" to 2"
150 PSI (at 73°F): 2-1/2" to 8"
75 PSI (at 73°F): 10" to 12"

TEMPERATURE RANGE

32°F to 140°F

SPECIFICATIONS

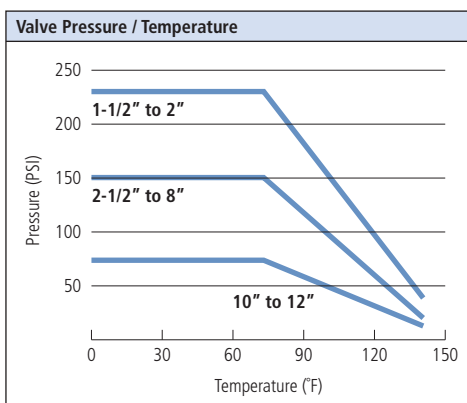
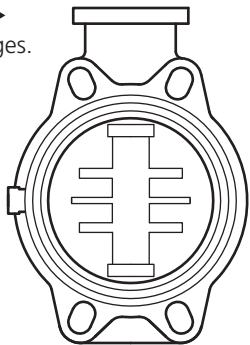
Connections:

1-1/2" to 12" wafer flange (ANSI 150).

Standards:

ASTM D1784 and ANSI B16.5.

Wafer Style Valve ▶
Installs between flanges.
Bolts span the body.



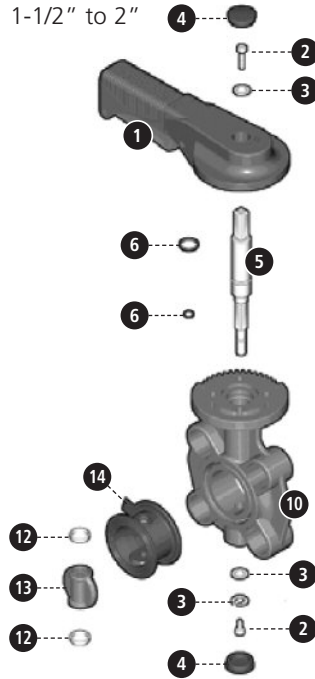
FE Series

PVC butterfly valve (Wafer style)

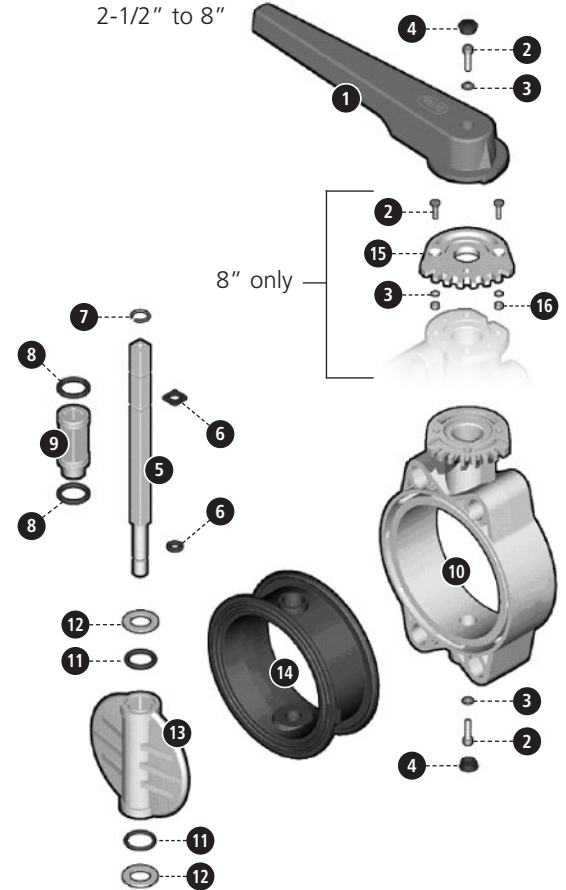
PARTS (1-1/2" to 8")

1. **Handle:** PVC.
2. **Screw:** Stainless steel.
3. **Washer:** Stainless steel.
4. **Cap:** PE.
5. **Shaft:** Zinc plated steel.
6. **Shaft O-ring:** EPDM or Viton®.
7. **Retaining Ring:** Stainless steel.
8. **Bushing O-ring:** EPDM or Viton®.
9. **Bushing:** Nylon.
10. **Body:** PVC.
11. **Disc O-ring:** EPDM or Viton®.
12. **Anti-friction Ring:** PTFE.
13. **Disc:** PVC.
14. **Primary Liner:** EPDM or Viton®.
15. **Pad:** PVC.

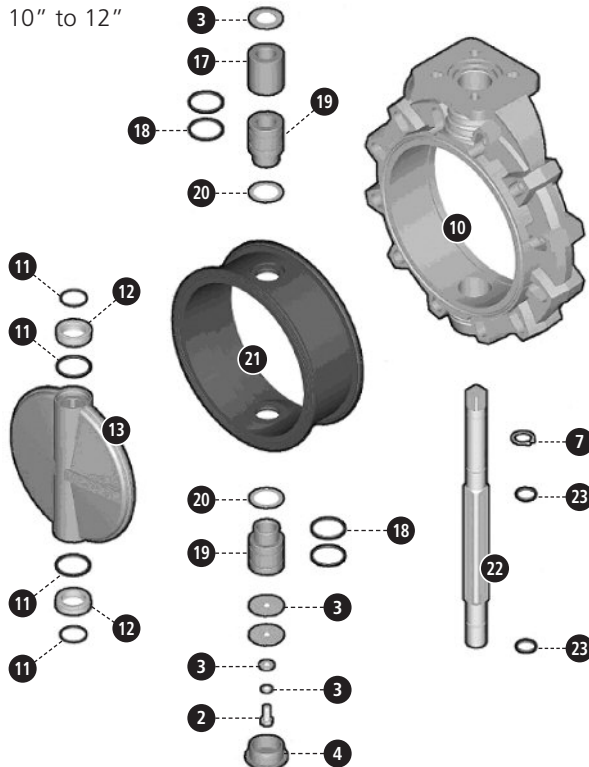
1-1/2" to 2"



2-1/2" to 8"



10" to 12"

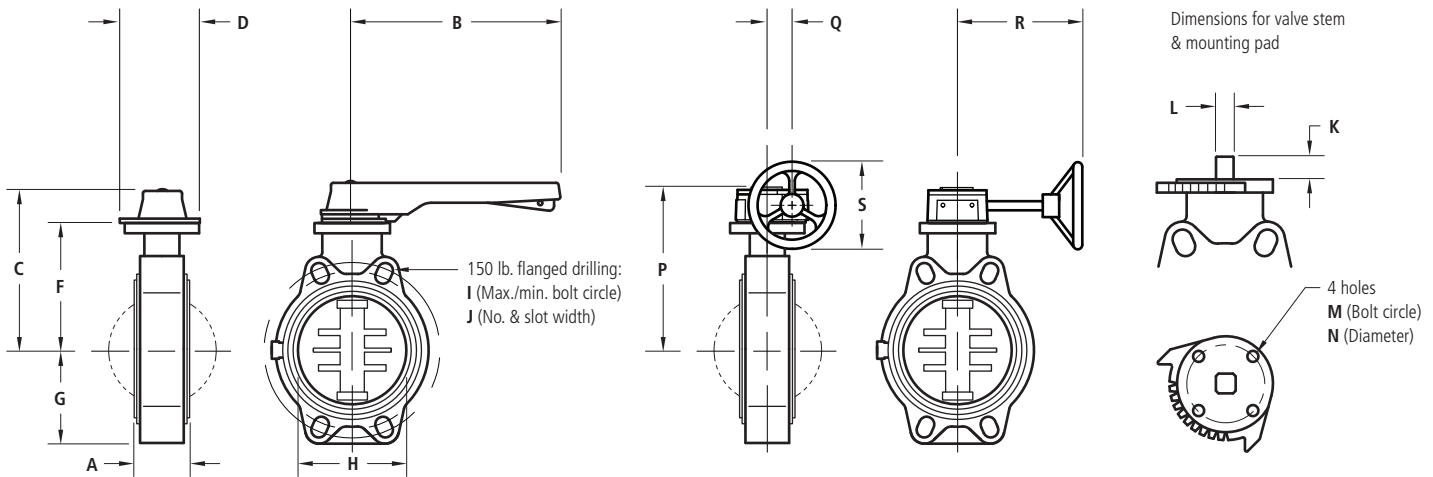


PARTS (con't)

16. **Nut:** Stainless steel.
17. **Bushing:** PP.
18. **Bushing O-ring:** EPDM.
19. **Bushing for O-ring:** PP.
20. **Washer:** PTFE.
21. **Primary Liner:** EPDM.
22. **Shaft:** 420 Stainless steel.
23. **Shaft O-ring:** EPDM.

FEWM / FEWG Series

Wafer style butterfly valve with latch handle (FEWM) or gear operator (FEWG)
 (Manual operation)



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	C	D	F	G	H	I (max.)	I (min.)	J	Wt.* (lbs.)	Model No.
1-1/2"	1.30	6.89	5.35	3.42	4.17	2.36	1.57	4.29	3.68	(4) .75	1.8	GFEWEPXM
2"	1.69	6.89	5.63	3.42	4.45	2.76	1.97	4.88	4.25	(4) .75	2.2	HFEWEPXM
2-1/2"	1.81	9.84	6.61	3.86	4.84	3.15	2.56	5.67	5.04	(4) .75	3.1	IFEWEPXM
3"	1.93	9.84	7.17	3.86	5.59	3.54	3.15	6.26	5.71	(4) .75	3.6	JFEWEPXM
4"	2.20	9.84	7.72	3.86	5.98	4.13	3.94	7.48	6.50	(4) .75	4.4	KFEWEPXM
5"	2.52	13.19	8.46	3.86	6.93	4.76	4.92	8.46	8.03	(4) .91	6.7	LFEWEPXM
6"	2.76	13.19	9.02	3.86	7.44	5.20	5.91	9.53	9.06	(4) .91	8.2	MFEWEPXM
8"	2.80	16.73	12.17	5.79	8.46	6.34	7.87	11.73	11.02	(8) .91	18.2	NFEWEPXM
10"	4.49	-	-	-	9.76	8.27	9.84	14.25	14.25	(12) 1.00	-	-
12"	4.49	-	-	-	12.01	9.65	11.81	17.00	17.00	(12) 1.00	-	-

* Weight includes handle.

MOUNTING DIMENSIONS & SPECIFICATIONS

Size	K	L	ISO	M	N
1-1/2"	0.47	0.43	F05	1.97	0.28
2"	0.47	0.43	F05	1.97	0.28
2-1/2"	0.47	0.43	F05 / F07	1.97 / 2.76	0.28 / 0.35
3"	0.63	0.55	F07	2.76	0.35
4"	0.63	0.55	F07	2.76	0.35
5"	0.75	0.67	F07	2.76	0.35
6"	0.75	0.67	F07	2.76	0.35
8"	0.94	0.87	F10	4.02	0.43
10"	0.94	0.87	F10 / F12 / F14	4.02 / 4.92 / 5.51	0.43 / 0.51 / 0.67
12"	0.94	0.87	F10 / F12 / F14	4.02 / 4.92 / 5.51	0.43 / 0.51 / 0.67

ADDITIONAL DIMENSIONS & SPECIFICATIONS

Size	P	Q	R	S	Wt.* (lbs.)	Model No.
1-1/2"	-	-	-	-	-	-
2"	-	-	-	-	-	-
2-1/2"	6.81	1.54	5.31	4.92	5.3	IFEWEPXG
3"	7.36	1.54	5.31	4.92	5.7	JFEWEPXG
4"	7.91	1.54	5.31	4.92	6.5	KFEWEPXG
5"	8.67	1.54	5.67	7.87	9.7	LFEWEPXG
6"	9.25	1.54	5.67	7.87	11.2	MFEWEPXG
8"	11.34	2.36	6.89	7.87	20.4	NFEWEPXG
10"	12.48	2.99	9.29	9.84	41.0	OFEWEPXG
12"	14.72	2.99	9.29	9.84	56.4	PFEWEPXG

* Weight includes gear operator.

FEW VALVE FEATURES

- Wafer style butterfly valve.
- PVC body and disc, EPDM seats and seals.
- Mounting pad for direct mount actuator per ISO 5211.
- Pressure range: 232 PSI: 1-1/2" to 2", 150 PSI: 2-1/2" to 8", 75 PSI: 10" to 12".

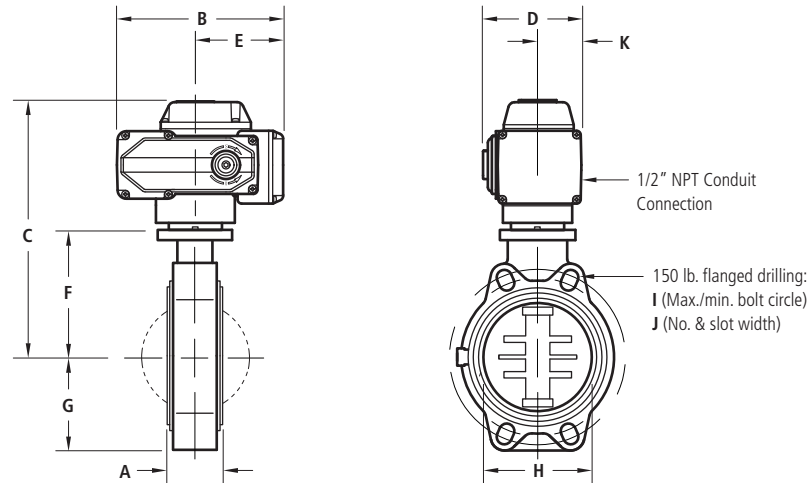
LEVER HANDLE FEATURES

- Adjustable locking device.

FEWK4 Series

Wafer style butterfly valve with electric actuator

(Actuators are sized for 150 PSI liquid media line pressure, contact factory for higher line pressure ratings)



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	C	D	E	F	G	H	I (max.)	I (min.)	J	K	Actuator	Wt. (lbs.)	Model No.
1-1/2"	1.30	6.25	8.27	4.50	3.00	4.17	2.36	1.57	4.29	3.68	(4) .75	2.00	UNIC05	5.9	GFEWEPXK4
2"	1.69	6.25	8.51	4.50	3.00	4.45	2.76	1.97	4.88	4.25	(4) .75	2.00	UNIC05	6.3	HFEWEPXK4
2-1/2"	1.81	6.25	8.79	4.50	3.00	4.84	3.15	2.56	5.67	5.04	(4) .75	2.00	UNIC05	6.8	IFEWEPXK4
3"	1.93	6.25	9.34	4.50	3.00	5.59	3.54	3.15	6.26	5.71	(4) .75	2.00	UNIC05	7.7	JFEWEPXK4
4"	2.20	8.17	12.23	4.82	4.33	5.98	4.13	3.94	7.48	6.50	(4) .75	2.14	UNIC10	13.9	KFEWEPXK4
5"	2.52	8.17	13.01	4.82	4.33	6.93	4.76	4.92	8.46	8.03	(4) .91	2.14	UNIC10	15.6	LFEWEPXK4
6"	2.76	10.10	14.37	8.16	5.25	7.44	5.20	5.91	9.53	9.06	(4) .91	2.48	UNIC20	25.3	MFEWEPXK4
8"	2.80	10.10	16.22	8.16	5.25	8.46	6.34	7.87	11.73	11.02	(8) .91	2.48	UNIC20	31.2	NFEWEPXK4
10"	4.49	15.00	18.97	9.53	7.85	9.76	8.27	9.84	14.25	14.25	(12) 1.00	4.13	UNIC60	70.7	OFEWEPXK4
12"	4.49	15.00	21.22	9.53	7.85	12.01	9.65	11.81	17.00	17.00	(12) 1.00	4.13	UNIC60	88.1	PFEWEPXK4

FEW VALVE FEATURES

- Wafer style butterfly valve.
- PVC body and disc.
- EPDM seats and seals.
- Mounting pad for direct mount actuator per ISO 5211.
- Pressure range: 232 PSI: 1-1/2" to 2",
150 PSI: 2-1/2" to 8", 75 PSI: 10" to 12".

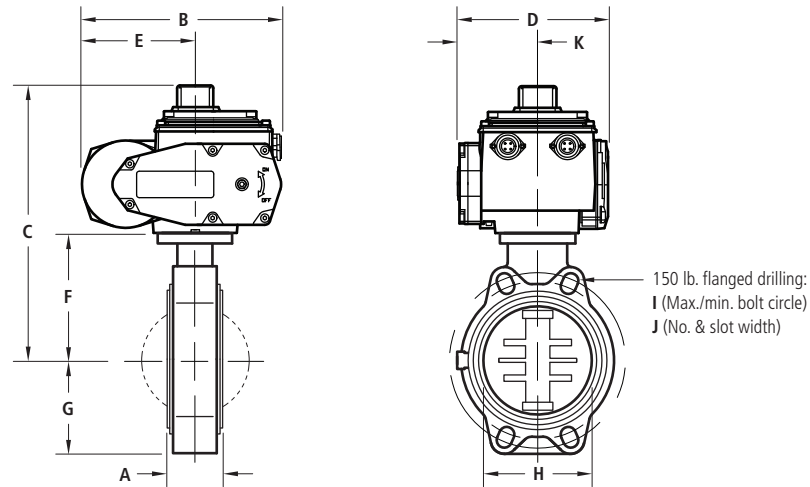
ELECTRIC ACTUATOR FEATURES

- K Series electric actuator.
- Actuator speed: 25 sec.
- Most voltages available.
- Quarter turn: 0-90° rotation.
- NEMA 4/4X certified by UL labs.
- ISO 5211 mounting standard.
- Visual position indicator.
- Self-locking drive train.
- Mounts in any direction.
- 1/2" NPT conduit connection.
- CSA-NRTL/C and CE certified.
- Temperature range: 0°F to 160°F.

FEWI4 Series

Wafer style butterfly valve with electric actuator NEMA 4, 4X

(Actuators are sized for 150 PSI liquid media line pressure, contact factory for higher line pressure ratings)



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	C	D	E	F	G	H	I (max.)	I (min.)	J	K	Actuator	Wt. (lbs.)	Model No.
1-1/2"	1.30	7.56	9.57	5.20	3.58	4.17	2.36	1.57	4.29	3.68	(4) .75	2.21	I40300	9.2	GFEWEPXI4
2"	1.69	7.56	9.85	5.20	3.58	4.45	2.76	1.97	4.88	4.25	(4) .75	2.21	I40300	9.6	HFEWEPXI4
2-1/2"	1.81	7.56	10.24	5.20	3.58	4.84	3.15	2.56	5.67	5.04	(4) .75	2.21	I40300	10.1	IFEWEPXI4
3"	1.93	7.56	11.00	5.20	3.58	5.59	3.54	3.15	6.26	5.71	(4) .75	2.21	I40300	11.0	JFEWEPXI4
4"	2.20	7.56	11.38	5.36	3.58	5.98	4.13	3.94	7.48	6.50	(4) .75	2.37	I40600	11.8	KFEWEPXI4
5"	2.52	8.73	13.10	6.30	4.75	6.93	4.76	4.92	8.46	8.03	(4) .91	3.31	I42100	22.1	LFEWEPXI4
6"	2.76	8.73	13.61	6.30	4.75	7.44	5.20	5.91	9.53	9.06	(4) .91	3.31	I42100	23.8	MFEWEPXI4
8"	2.80	8.73	14.63	6.30	4.75	8.46	6.34	7.87	11.73	11.02	(8) .91	3.31	I42100	29.7	NFEWEPXI4

⊙ Voltage: **A** = 120 VAC; **B** = 24 VDC.

FEW VALVE FEATURES

- Wafer style butterfly valve.
- PVC body and disc.
- EPDM seats and seals.
- Mounting pad for direct mount actuator per ISO 5211.
- Pressure range: 232 PSI: 1-1/2" to 2",
150 PSI: 2-1/2" to 8".

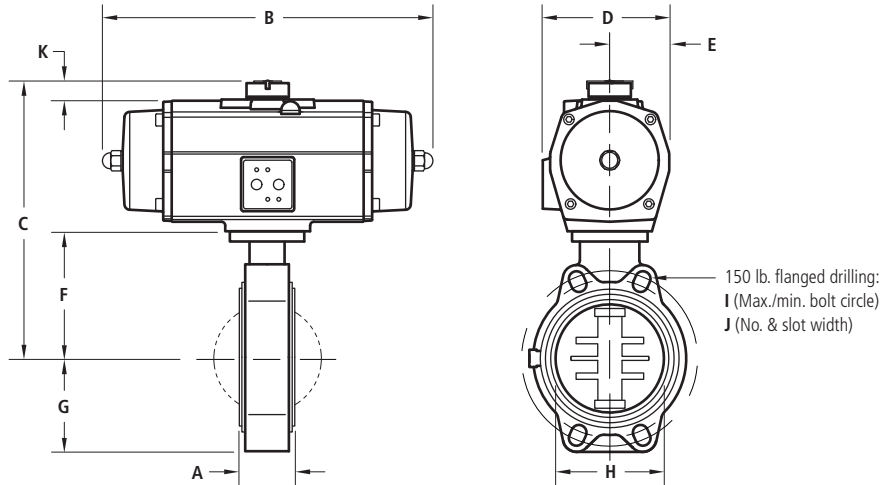
ELECTRIC ACTUATOR FEATURES

- I4 Series electric actuator.
- Weatherproof enclosure IP65.
- Voltages available: 115 VAC, 24 VAC/VDC.
- Duty cycle: 50%.
- IP65 electrical connectors.
- Space heater.
- Extra (2) SPDT adjustable limit switches.
- Temperature range: 0°F to 140°F.

FEWESR Series

Wafer style butterfly valve with spring return pneumatic actuator

(Actuators are sized for 150 PSI liquid media line pressure, contact factory for higher line pressure ratings)



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	C	D	E	F	G	H	I (max.)	I (min.)	J	K	Actuator	Wt. (lbs.)	Model No.
80 psig Minimum Actuator Air Supply = 85															
1-1/2"	1.30	6.77	8.11	3.26	1.46	4.17	2.36	1.57	4.29	3.68	(4) .75	.79	ES25-5	5.0	GFEWEPXE8S
2"	1.69	6.77	8.39	3.26	1.46	4.45	2.76	1.97	4.88	4.25	(4) .75	.79	ES25-5	5.4	HFEWEPXE8S
2-1/2"	1.81	8.03	9.29	3.78	1.70	4.84	3.15	2.56	5.67	5.04	(4) .75	.79	ES40-5	7.5	IFEWEPXE8S
3"	1.93	9.80	10.51	4.19	1.93	5.59	3.54	3.15	6.26	5.71	(4) .75	.79	ES65-5	11.0	JFEWEPXE8S
4"	2.20	14.17	12.40	5.39	2.52	5.98	4.13	3.94	7.48	6.50	(4) .75	.79	ES200-5	24.0	KFEWEPXE8S
5"	2.52	14.17	13.35	5.39	2.52	6.93	4.76	4.92	8.46	8.03	(4) .91	.79	ES200-5	25.7	LFEWEPXE8S
6"	2.76	15.24	15.36	7.12	3.41	7.44	5.20	5.91	9.53	9.06	(4) .91	.79	ES350-5	44.6	MFEWEPXE8S
8"	2.80	15.24	16.38	7.12	3.41	8.46	6.34	7.87	11.73	11.02	(8) .91	.79	ES350-5	50.5	NFEWEPXE8S
10"	4.49	20.35	21.14	9.51	4.54	9.76	8.27	9.84	14.25	14.25	(12) 1.00	.79	ES950-5	112.1	OFEWEPXE8S
12"	4.49	25.08	24.88	10.81	5.21	12.01	9.65	11.81	17.00	17.00	(12) 1.00	1.18	ES1600-5	187.0	PFEWEPXE8S
60 psig Minimum Actuator Air Supply = 65															
1-1/2"	1.30	6.77	8.11	3.26	1.46	4.17	2.36	1.57	4.29	3.68	(4) .75	.79	ES25-3	5.0	GFEWEPXE6S
2"	1.69	6.77	8.39	3.26	1.46	4.45	2.76	1.97	4.88	4.25	(4) .75	.79	ES25-3	5.4	HFEWEPXE6S
2-1/2"	1.81	8.03	9.29	3.78	1.70	4.84	3.15	2.56	5.67	5.04	(4) .75	.79	ES40-3	7.5	IFEWEPXE6S
3"	1.93	9.80	10.51	4.19	1.93	5.59	3.54	3.15	6.26	5.71	(4) .75	.79	ES65-3	11.0	JFEWEPXE6S
4"	2.20	14.17	12.40	5.39	2.52	5.98	4.13	3.94	7.48	6.50	(4) .75	.79	ES200-3	24.0	KFEWEPXE6S
5"	2.52	14.17	13.35	5.39	2.52	6.93	4.76	4.92	8.46	8.03	(4) .91	.79	ES200-3	25.7	LFEWEPXE6S
6"	2.76	15.24	15.36	7.12	3.41	7.44	5.20	5.91	9.53	9.06	(4) .91	.79	ES350-3	44.6	MFEWEPXE6S
8"	2.80	15.24	16.38	7.12	3.41	8.46	6.34	7.87	11.73	11.02	(8) .91	.79	ES350-3	50.5	NFEWEPXE6S
10"	4.49	20.35	21.14	9.51	4.54	9.76	8.27	9.84	14.25	14.25	(12) 1.00	1.18	ES950-3	112.1	OFEWEPXE6S
12"	4.49	25.08	24.88	10.81	5.21	12.01	9.65	11.81	17.00	17.00	(12) 1.00	1.18	ES1600-3	187.0	PFEWEPXE6S

FEW VALVE FEATURES

- Wafer style butterfly valve.
- PVC body and disc.
- EPDM seats and seals.
- Mounting pad for direct mount actuator per ISO 5211.
- Pressure range: 232 PSI: 1-1/2" to 2", 150 PSI: 2-1/2" to 8", 75 PSI: 10" to 12".

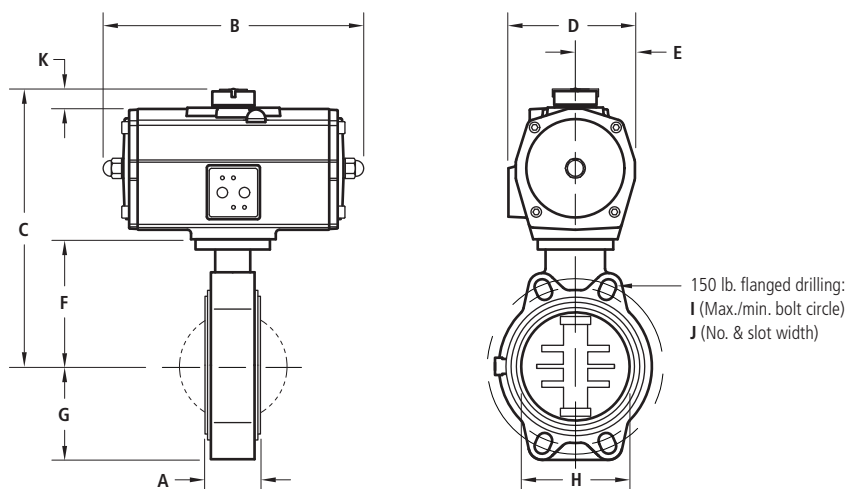
PNEUMATIC ACTUATOR FEATURES

- E Series spring return rack and pinion actuator.
- Corrosion resistant coating.
- NAMUR solenoid mounting pad, ISO 5211 mounting standard.
- Visual position indicator.
- High duty cycle, permanent lubrication.
- Temperature range: -4°F to 175°F.

FEWEDA Series

Wafer style butterfly valve with double acting pneumatic actuator

(Actuators are sized for 150 PSI liquid media line pressure, contact factory for higher line pressure ratings)



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	C	D	E	F	G	H	I (max.)	I (min.)	J	K	Actuator	Wt. (lbs.)	Model No.
80 psig Minimum Actuator Air Supply = 8D															
1-1/2"	1.30	6.26	8.11	3.26	1.46	4.17	2.36	1.57	4.29	3.68	(4) .75	.79	ED25	4.2	GFEWEPXE8D
2"	1.69	6.26	8.39	3.26	1.46	4.45	2.76	1.97	4.88	4.25	(4) .75	.79	ED25	4.6	HFEWEPXE8D
2-1/2"	1.81	6.26	8.78	3.26	1.46	4.84	3.15	2.56	5.67	5.04	(4) .75	.79	ED25	5.1	IFEWEPXE8D
3"	1.93	7.83	10.51	4.19	1.93	5.59	3.54	3.15	6.26	5.71	(4) .75	.79	ED65	8.4	JFEWEPXE8D
4"	2.20	7.83	10.90	4.19	1.93	5.98	4.13	3.94	7.48	6.50	(4) .75	.79	ED65	9.2	KFEWEPXE8D
5"	2.52	8.70	12.37	4.60	2.12	6.93	4.76	4.92	8.46	8.03	(4) .91	.79	ED100	12.4	LFEWEPXE8D
6"	2.76	11.14	13.86	5.39	2.52	7.44	5.20	5.91	9.53	9.06	(4) .91	.79	ED200	20.1	MFEWEPXE8D
8"	2.80	11.14	14.88	5.39	2.52	8.46	6.34	7.87	11.73	11.02	(8) .91	.79	ED200	26.0	NFEWEPXE8D
10"	4.49	12.01	17.68	7.12	3.41	9.76	8.27	9.84	14.25	14.25	(12) 1.00	.79	ED350	49.4	OFEWEPXE8D
12"	4.49	15.24	21.85	8.52	4.08	12.01	9.65	11.81	17.00	17.00	(12) 1.00	1.18	ED600	84.7	PFEWEPXE8D
60 psig Minimum Actuator Air Supply = 6D															
1-1/2"	1.30	6.26	8.11	3.26	1.46	4.17	2.36	1.57	4.29	3.68	(4) .75	.79	ED25	4.2	GFEWEPXE6D
2"	1.69	6.26	8.39	3.26	1.46	4.45	2.76	1.97	4.88	4.25	(4) .75	.79	ED25	4.6	HFEWEPXE6D
2-1/2"	1.81	6.26	8.78	3.26	1.46	4.84	3.15	2.56	5.67	5.04	(4) .75	.79	ED25	5.1	IFEWEPXE6D
3"	1.93	7.09	10.51	3.78	1.70	5.59	3.54	3.15	6.26	5.71	(4) .75	.79	ED40	7.1	JFEWEPXE6D
4"	2.20	8.70	10.90	4.60	2.12	5.98	4.13	3.94	7.48	6.50	(4) .75	.79	ED100	10.7	KFEWEPXE6D
5"	2.52	8.70	12.37	4.60	2.12	6.93	4.76	4.92	8.46	8.03	(4) .91	.79	ED100	12.4	LFEWEPXE6D
6"	2.76	11.14	13.86	5.39	2.52	7.44	5.20	5.91	9.53	9.06	(4) .91	.79	ED200	20.1	MFEWEPXE6D
8"	2.80	12.01	14.88	7.12	3.41	8.46	6.34	7.87	11.73	11.02	(8) .91	.79	ED350	36.1	NFEWEPXE6D
10"	4.49	15.24	17.68	8.52	4.08	9.76	8.27	9.84	14.25	14.25	(12) 1.00	1.18	ED600	69.3	OFEWEPXE6D
12"	4.49	15.24	21.85	8.52	4.08	12.01	9.65	11.81	17.00	17.00	(12) 1.00	1.18	ED600	84.7	PFEWEPXE6D

FEW VALVE FEATURES

- Wafer style butterfly valve.
- PVC body and disc.
- EPDM seats and seals.
- Mounting pad for direct mount actuator per ISO 5211.
- Pressure range: 232 PSI: 1-1/2" to 2", 150 PSI: 2-1/2" to 8", 75 PSI: 10" to 12".

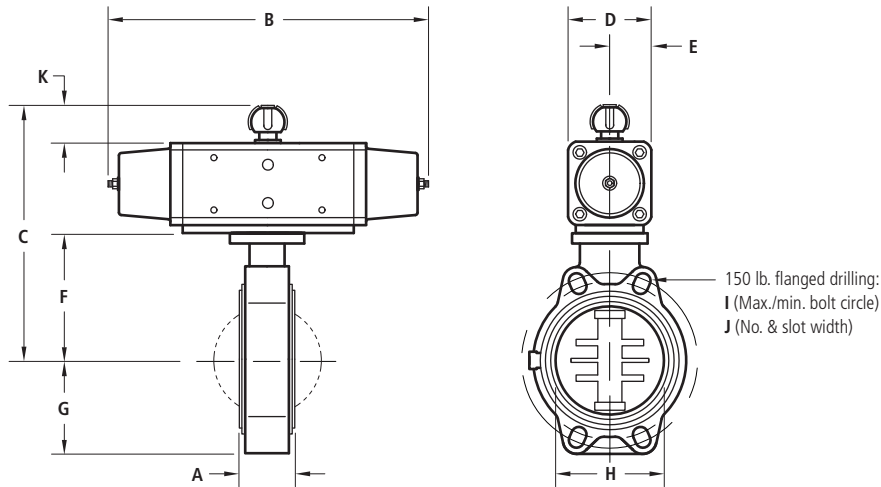
PNEUMATIC ACTUATOR FEATURES

- E Series double acting rack and pinion actuator.
- Corrosion resistant coating.
- NAMUR solenoid mounting pad, ISO 5211 mounting standard.
- Visual position indicator.
- High duty cycle, permanent lubrication.
- Temperature range: -4°F to 175°F.

FEWOSR Series

Wafer style butterfly valve with spring return pneumatic actuator

(Actuators are sized for 150 PSI liquid media line pressure, contact factory for higher line pressure ratings)



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	C	D	E	F	G	H	I (max.)	I (min.)	J	K	Actuator	Wt. (lbs.)	Model No.
80 psig Minimum Actuator Air Supply = 85															
1-1/2"	1.30	9.45	8.11	2.56	1.28	4.17	2.36	1.57	4.29	3.68	(4) .75	.79	PS030	5.7	GFEWEPX08S
2"	1.69	9.45	8.35	2.56	1.28	4.45	2.76	1.97	4.88	4.25	(4) .75	.79	PS030	6.1	HFEWEPX08S
2-1/2"	1.81	9.45	10.31	2.56	1.28	4.84	3.15	2.56	5.67	5.04	(4) .75	.79	PS030	6.6	IFEWEPX08S
3"	1.93	12.60	11.06	3.15	1.57	5.59	3.54	3.15	6.26	5.71	(4) .75	1.18	PS060	10.8	JFEWEPX08S
4"	2.20	14.06	11.51	3.54	1.77	5.98	4.13	3.94	7.48	6.50	(4) .75	1.18	PS090	14.0	KFEWEPX08S
5"	2.52	14.65	13.70	3.94	1.97	6.93	4.76	4.92	8.46	8.03	(4) .91	1.18	PS120	20.3	LFEWEPX08S
6"	2.76	17.18	14.41	4.41	2.20	7.44	5.20	5.91	9.53	9.06	(4) .91	1.18	PS180	28.0	MFEWEPX08S
60 psig Minimum Actuator Air Supply = 65															
1-1/2"	1.30	9.45	8.11	2.56	1.28	4.17	2.36	1.57	4.29	3.68	(4) .75	.79	PS030	5.7	GFEWEPX06S
2"	1.69	9.45	8.35	2.56	1.28	4.45	2.76	1.97	4.88	4.25	(4) .75	.79	PS030	6.1	HFEWEPX06S
2-1/2"	1.81	9.45	10.31	2.56	1.28	4.84	3.15	2.56	5.67	5.04	(4) .75	.79	PS030	6.6	IFEWEPX06S
3"	1.93	14.06	10.20	3.54	1.77	5.59	3.54	3.15	6.26	5.71	(4) .75	1.18	PS090	13.2	JFEWEPX06S
4"	2.20	14.65	11.14	3.94	1.97	5.98	4.13	3.94	7.48	6.50	(4) .75	1.18	PS120	18.6	KFEWEPX06S
5"	2.52	17.18	12.39	4.41	2.20	6.93	4.76	4.92	8.46	8.03	(4) .91	1.18	PS180	26.3	LFEWEPX06S

FEW VALVE FEATURES

- Wafer style butterfly valve.
- PVC body and disc.
- EPDM seats and seals.
- Mounting pad for direct mount actuator per ISO 5211.
- Pressure range: 232 PSI: 1-1/2" to 2",
150 PSI: 2-1/2" to 6".

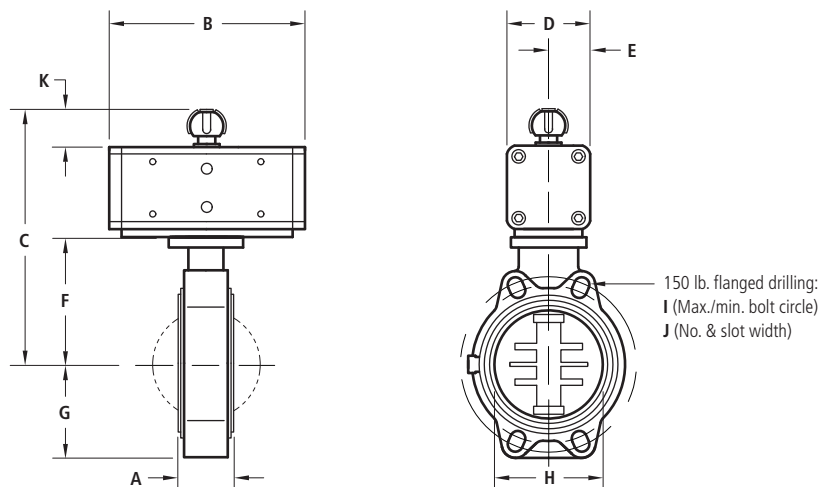
PNEUMATIC ACTUATOR FEATURES

- O Series spring return pneumatic actuator.
- Corrosion resistant coating.
- NAMUR solenoid mounting pad, ISO 5211 mounting standard.
- Visual position indicators.
- High duty cycle, permanent lubrication.
- Temperature range: -4°F to 175°F.

FEWODA Series

Wafer style butterfly valve with double acting pneumatic actuator

(Actuators are sized for 150 PSI liquid media line pressure, contact factory for higher line pressure ratings)



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	C	D	E	F	G	H	I (max.)	I (min.)	J	K	Actuator	Wt. (lbs.)	Model No.
80 psig Minimum Actuator Air Supply = 8D															
1-1/2"	1.30	5.67	7.54	2.36	1.18	4.17	2.36	1.57	4.29	3.68	(4) .75	.79	PD045	4.1	GFEWEPX08D
2"	1.69	5.67	7.82	2.36	1.18	4.45	2.76	1.97	4.88	4.25	(4) .75	.79	PD045	4.5	HFEWEPX08D
2-1/2"	1.81	5.67	8.21	2.36	1.18	4.84	3.15	2.56	5.67	5.04	(4) .75	.79	PD045	5.0	IFEWEPX08D
3"	1.93	6.85	9.43	2.83	1.41	5.59	3.54	3.15	6.26	5.71	(4) .75	.79	PD090	7.2	JFEWEPX08D
4"	2.20	6.85	9.82	2.83	1.41	5.98	4.13	3.94	7.48	6.50	(4) .75	.79	PD090	8.0	KFEWEPX08D
5"	2.52	8.35	11.89	3.54	1.77	6.93	4.76	4.92	8.46	8.03	(4) .91	1.18	PD180	13.1	LFEWEPX08D
6"	2.76	8.35	12.40	3.54	1.77	7.44	5.20	5.91	9.53	9.06	(4) .91	1.18	PD180	14.8	MFEWEPX08D
60 psig Minimum Actuator Air Supply = 6D															
1-1/2"	1.30	6.65	8.01	2.83	1.41	4.17	2.36	1.57	4.29	3.68	(4) .75	.79	PD090	5.4	GFEWEPX06D
2"	1.69	6.65	8.29	2.83	1.41	4.45	2.76	1.97	4.88	4.25	(4) .75	.79	PD090	5.8	HFEWEPX06D
2-1/2"	1.81	6.65	8.68	2.83	1.41	4.84	3.15	2.56	5.67	5.04	(4) .75	.79	PD090	6.3	IFEWEPX06D
3"	1.93	6.65	9.43	2.83	1.41	5.59	3.54	3.15	6.26	5.71	(4) .75	.79	PD090	7.2	JFEWEPX06D
4"	2.20	7.24	10.54	3.15	1.57	5.98	4.13	3.94	7.48	6.50	(4) .75	1.18	PD120	10.1	KFEWEPX06D
5"	2.52	8.35	11.89	3.54	1.77	6.93	4.76	4.92	8.46	8.03	(4) .91	1.18	PD180	13.1	LFEWEPX06D

FEW VALVE FEATURES

- Wafer style butterfly valve.
- PVC body and disc.
- EPDM seats and seals.
- Mounting pad for direct mount actuator per ISO 5211.
- Pressure range: 232 PSI: 1-1/2" to 2",
150 PSI: 2-1/2" to 6".

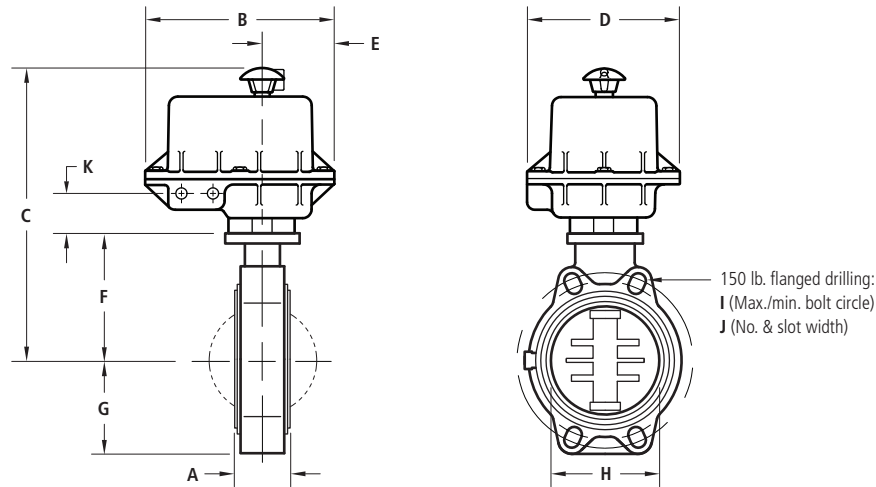
PNEUMATIC ACTUATOR FEATURES

- O Series double acting pneumatic actuator.
- Corrosion resistant coating.
- NAMUR solenoid mounting pad, ISO 5211 mounting standard.
- Visual position indicators.
- High duty cycle, permanent lubrication.
- Temperature range: -4°F to 175°F.

FEWB7 Series 1-1/2" to 6" Sizes

Wafer style butterfly valve with explosion proof electric actuator, NEMA 7, 120 VAC

(Actuators are sized for 150 PSI liquid media line pressure, contact factory for higher line pressure ratings)



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	C	D	E	F	G	H	I (max.)	I (min.)	J	K	Actuator	Wt. (lbs.)	Model No.
1-1/2"	1.30	9.75	13.61	7.75	3.75	4.17	2.36	1.57	4.29	3.68	(4) .75	2.44	BEEM500F	19.3	GFEWEPXB7
2"	1.69	9.75	13.85	7.75	3.75	4.45	2.76	1.97	4.88	4.25	(4) .75	2.44	BEEM500F	19.7	HFEWEPXB7
2-1/2"	1.81	9.75	14.13	7.75	3.75	4.84	3.15	2.56	5.67	5.04	(4) .75	2.44	BEEM500F	20.2	IFEWEPXB7
3"	1.93	9.75	14.68	7.75	3.75	5.59	3.54	3.15	6.26	5.71	(4) .75	2.44	BEEM500F	21.1	JFEWEPXB7
4"	2.20	9.75	15.23	7.75	3.75	5.98	4.13	3.94	7.48	6.50	(4) .75	2.44	BEEM500F	21.9	KFEWEPXB7
5"	2.52	9.75	16.01	7.75	3.75	6.93	4.76	4.92	8.46	8.03	(4) .91	2.44	BEEM500F	23.6	LFEWEPXB7
6"	2.76	9.75	16.53	7.75	3.75	7.44	5.20	5.91	9.53	9.06	(4) .91	2.44	BEEM500F	25.3	MFEWEPXB7

FEW VALVE FEATURES

- Wafer style butterfly valve.
- PVC body and disc.
- EPDM seats and seals.
- Mounting pad for direct mount actuator per ISO 5211.
- Pressure range: 232 PSI: 1-1/2" to 2",
150 PSI: 2-1/2" to 6".

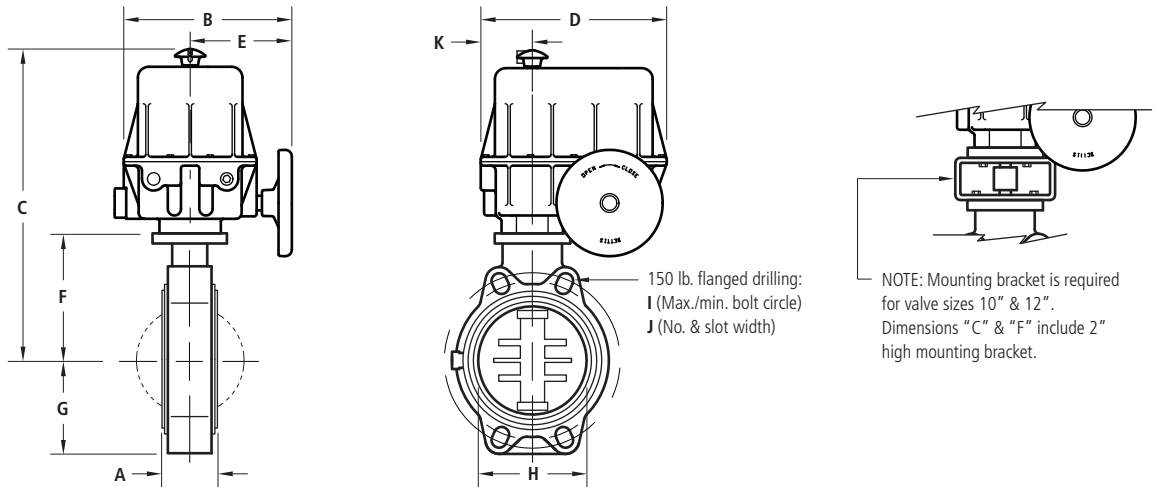
ELECTRIC ACTUATOR FEATURES

- B7 Series electric actuator.
- Actuator speed: 15 sec.
- NEMA 4, 4x, 7 and 9; CSA approved.
- Weatherproof.
- Class I Groups C and D, Div. 1.
- Class II Groups E, F and G.
- (2) 1/2" NPT conduit entries.
- Manual override.
- Visual position indicator.
- CSA certified.
- Temperature range: 0°F to 160°F.

FEWB7 Series 8" to 12" Sizes

Wafer style butterfly valve with explosion proof electric actuator, NEMA 7, 120 VAC

(Actuators are sized for 150 PSI liquid media line pressure, contact factory for higher line pressure ratings)



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	C	D	E	F	G	H	I (max.)	I (min.)	J	K	Actuator	Wt. (lbs.)	Model No.
8"	2.80	13.31	23.84	14.00	7.62	8.46	6.34	7.87	11.73	11.02	(8) .91	3.88	BEEM800F	173.2	NFEWEPXB7
10"	4.49	13.31	27.14	14.00	7.62	9.76	8.27	9.84	14.25	14.25	(12) 1.00	3.88	BEEM800F	186.5	OFEWEPXB7
12"	4.49	13.31	29.39	14.00	7.62	12.01	9.65	11.81	17.00	17.00	(12) 1.00	3.88	BEEM800F	201.9	PFEWEPXB7

FEW VALVE FEATURES

- Wafer style butterfly valve.
- PVC body and disc.
- EPDM seats and seals.
- Mounting pad for direct mount actuator per ISO 5211.
- Pressure range: 150 PSI: 8", 75 PSI: 10" to 12".

ELECTRIC ACTUATOR FEATURES

- B7 Series electric actuator.
- Actuator speed: 18 sec.
- NEMA 4, 7 and 9; CSA approved.
- Weatherproof.
- Class I Groups C and D, Div. 1.
- Class II Groups E, F and G.
- (2) 1/2" NPT conduit entries.
- Manual override.
- Visual position indicator.
- CSA certified.
- Temperature range: 0°F to 160°F.

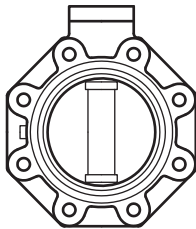
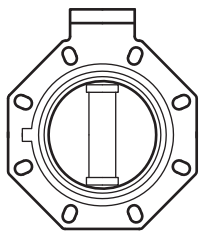
FK Series

Polypropylene Lug and Wafer Style Butterfly Valve



Lug Style Valve ▶

Installs between flanges. Bolts are threaded into tapped holes from each side of mounting flange.



◀ Wafer Style Valve

Installs between flanges. Bolts span the body.

The FK Series butterfly valves offer superior strength and chemical resistance in highly corrosive environments and process flow conditions. This versatile industrial valve features double self-lubricating seals, direct actuator mount capability, and the option of either a lever handle or mounted gear box. A stainless steel "insert" lug version provides full bi-directional operation allowing disassembly of the downstream flange connection without the integrity of the upstream line.

FEATURES

- ISO dimensions for direct mounting of actuators.
- Trapezoidal elastomeric liner provides a bubble tight seal while keeping break-away torque at an absolute minimum.
- Liner completely isolates valve body from process flow and functions as a flange gasket on both sides of the valve.
- Body cavity features special channeling to prevent liner slippage and compression.
- PTFE seated O-ring shaft seals.

MATERIALS OF CONSTRUCTION

Seats and Seals:

EPDM or Viton®.

Disc:

PP (polypropylene).

Body:

GRPP (glass reinforced polypropylene).

ACTUATOR CONFIGURATIONS

- Electric.
- Pneumatic (spring return).
- Pneumatic (double acting).
- Manual handle lever.
- Manual geared hand wheel.

MAXIMUM PRESSURE

150 PSI (at 73°F): 1-1/2" to 10"
120 PSI (at 73°F): 12"

TEMPERATURE RANGE

32°F to 212°F

SPECIFICATIONS

Connections:

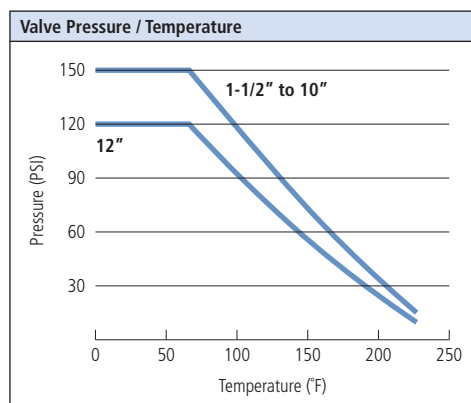
1-1/2" to 12" wafer flange (ANSI 150).
2-1/2" to 12" lugged flange (ANSI 150).

Standards:

ASTM D1784 and ANSI B16.5.

CV FACTORS

Size	Cv
1-1/2"	70
2"	90
2-1/2"	119
3"	249
4"	413
5"	690
6"	1309
8"	2135
10"	3724
12"	5712



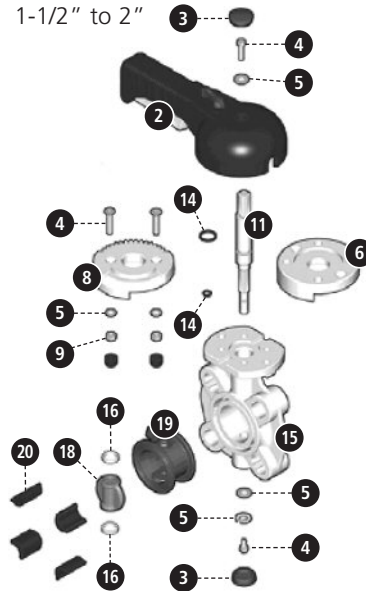
FK Series

Polypropylene butterfly valve (Lug and wafer style)

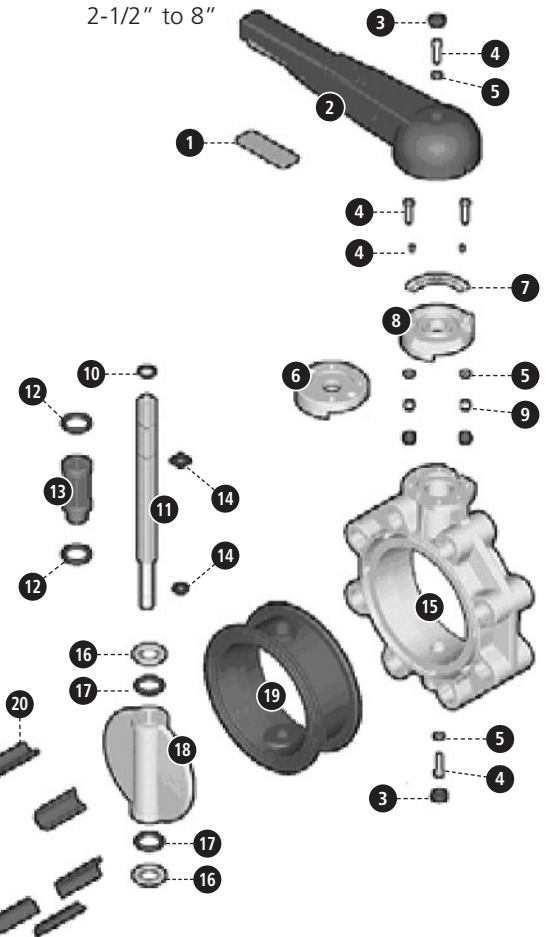
PARTS

1. **Handle Insert:** ABS.
2. **Handle:** PVC.
3. **Cap:** PE.
4. **Screw:** Stainless steel.
5. **Washer:** Stainless steel.
6. **Spacer Pad:** GRPP.
7. **Ratchet:** Stainless steel.
8. **Pad:** GRPP.
9. **Nut:** Stainless steel.
10. **Retaining Ring:** Stainless steel.
11. **Shaft:** 420 stainless steel.
12. **Bushing O-ring:** EPDM or Viton®.
13. **Bushing:** Nylon.
14. **Shaft O-ring:** EPDM or Viton®.
15. **Body:** GRPP.

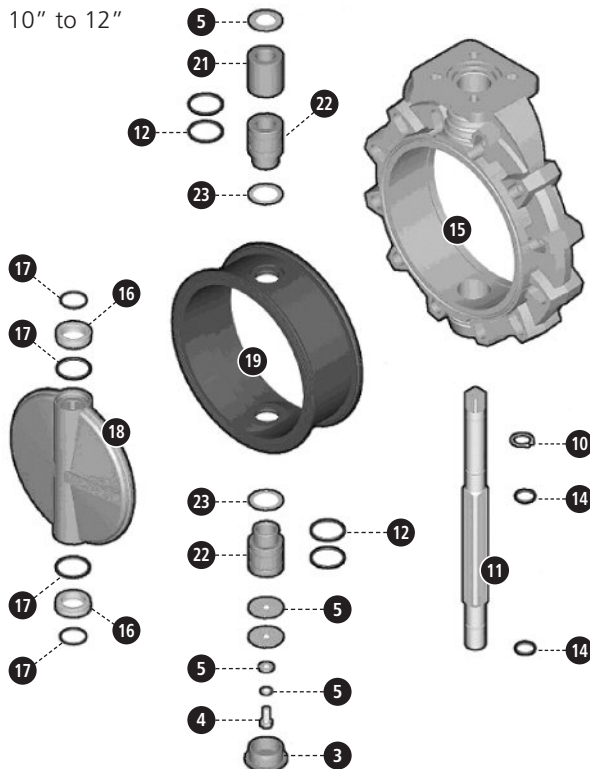
1-1/2" to 2"



2-1/2" to 8"



10" to 12"

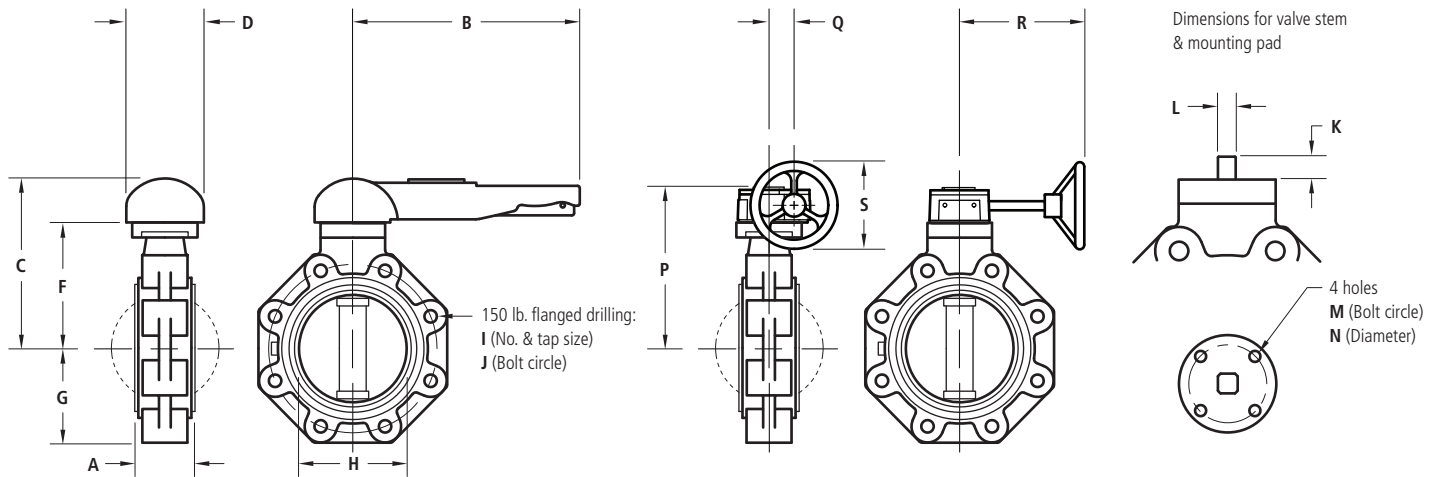


PARTS (con't)

16. **Anti-friction Ring:** PTFE.
17. **Disc O-ring:** EPDM or Viton®.
18. **Disc:** PP.
19. **Primary Liner:** EPDM or Viton®.
20. **Inserts:** ABS.
21. **Bushing:** PP.
22. **Bushing for O-ring:** PP.
23. **Washer:** PTFE.

FKLM / FKLG Series

Lug style butterfly valve with latch handle (FKWM) or gear operator (FKWG)
 (Manual operation)



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	C	D	F	G	H	I	J	Wt.* (lbs.)	Model No.
2-1/2"	1.81	10.71	6.46	4.33	4.69	3.15	2.56	(4) 5/8"-11	5.50	3.5	IFKLEPPOM
3"	1.93	10.71	7.01	4.33	5.24	3.66	3.15	(4) 5/8"-11	6.00	4.1	JFKLEPPOM
4"	2.20	10.71	7.56	4.33	5.79	4.21	3.94	(8) 5/8"-11	7.50	4.9	KFKLEPPOM
5"	2.52	12.99	8.35	4.33	6.57	4.72	4.92	(8) 3/4"-10	8.50	6.8	LFKLEPPOM
6"	2.76	12.99	8.86	4.33	7.09	5.28	5.91	(8) 3/4"-10	9.50	8.5	MFKLEPPOM
8"	2.80	16.54	10.71	4.80	8.94	6.34	7.87	(8) 3/4"-10	11.75	14.9	NFKLEPPOM
10"	4.49	-	-	-	9.76	8.27	9.84	(12) 7/8"-9	14.25	-	-
12"	4.49	-	-	-	12.01	9.65	11.81	(12) 7/8"-9	17.00	-	-

* Weight includes handle. ⊙ Seat: E = EPDM; V = Viton®.

MOUNTING DIMENSIONS & SPECIFICATIONS

Size	K	L	ISO	M	N
2-1/2"	0.47	0.43	F05 / F07	1.97 / 2.76	0.28 / 0.35
3"	0.63	0.55	F07	2.76	0.35
4"	0.63	0.55	F07	2.76	0.35
5"	0.75	0.67	F07	2.76	0.35
6"	0.75	0.67	F07	2.76	0.35
8"	0.94	0.87	F10	4.02	0.43
10"	1.14	1.06	F10 / F12 / F14	4.02 / 4.92 / 5.51	0.43 / 0.51 / 0.67
12"	1.14	1.06	F10 / F12 / F14	4.02 / 4.92 / 5.51	0.43 / 0.51 / 0.67

FKL VALVE FEATURES

- Lug style butterfly valve.
- Polypropylene PP body, disc and stem.
- EPDM or Viton® seats.
- Mounting pad for direct mount actuator per ISO 5211.
- Pressure range: 150 PSI: 2-1/2" to 10", 120 PSI: 12".

ADDITIONAL DIMENSIONS & SPECIFICATIONS

Size	P	Q	R	S	Wt.* (lbs.)	Model No.
2-1/2"	6.85	1.54	5.31	4.92	5.3	IFKLEPPOG
3"	7.40	1.54	5.31	4.92	6.2	JFKLEPPOG
4"	7.95	1.54	5.31	4.92	6.9	KFKLEPPOG
5"	8.74	1.54	5.67	7.87	9.8	LFKLEPPOG
6"	9.25	1.54	5.67	7.87	11.5	MFKLEPPOG
8"	11.30	2.36	8.03	7.87	20.5	NFKLEPPOG
10"	12.48	2.99	9.29	9.84	41.0	OFKLEPPOG
12"	14.72	2.99	9.29	9.84	56.4	PFKLEPPOG

* Weight includes gear operator. ⊙ Seat: E = EPDM; V = Viton®.

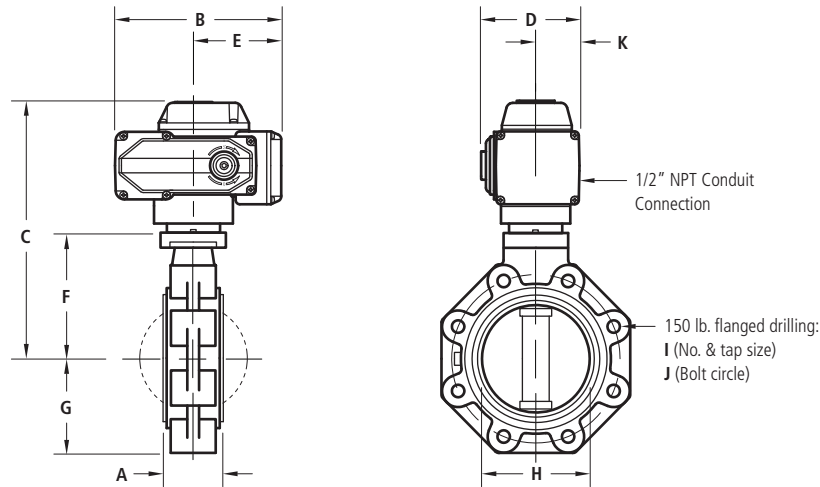
LEVER HANDLE FEATURES

- Adjustable locking device.

FKLK4 Series

Lug style butterfly valve with electric actuator

(Actuators are sized for 150 PSI liquid media line pressure, contact factory for higher line pressure ratings)



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	C	D	E	F	G	H	I	J	K	Actuator	Wt. (lbs.)	Model No.
2-1/2"	1.81	6.25	8.79	4.50	3.00	4.69	3.15	2.56	(4) 5/8"-11	5.50	2.00	UNIC05	6.8	IFKLEPP⊙K4
3"	1.93	6.25	9.34	4.50	3.00	5.24	3.66	3.15	(4) 5/8"-11	6.00	2.00	UNIC05	7.7	JFKLEPP⊙K4
4"	2.20	8.17	12.23	4.82	4.33	5.79	4.21	3.94	(8) 5/8"-11	7.50	2.14	UNIC10	13.9	KFKLEPP⊙K4
5"	2.52	8.17	13.01	4.82	4.33	6.57	4.72	4.92	(8) 3/4"-10	8.50	2.14	UNIC10	15.6	LFKLEPP⊙K4
6"	2.76	10.10	14.37	8.16	5.25	7.09	5.28	5.91	(8) 3/4"-10	9.50	2.48	UNIC20	25.3	MFKLEPP⊙K4
8"	2.80	10.10	16.22	8.16	5.25	8.94	6.34	7.87	(8) 3/4"-10	11.75	2.48	UNIC20	31.2	NFKLEPP⊙K4
10"	4.49	15.00	18.97	9.53	7.85	9.76	8.27	9.84	(12) 7/8"-9	14.25	4.13	UNIC60	70.7	OFKLEPP⊙K4
12"	4.49	15.00	21.22	9.53	7.85	12.01	9.65	11.81	(12) 7/8"-9	17.00	4.13	UNIC60	88.1	PFKLEPP⊙K4

⊙ Seat: E = EPDM; V = Viton®.

FKL VALVE FEATURES

- Lug style butterfly valve.
- Polypropylene PP body, disc and stem.
- EPDM or Viton® seats.
- Mounting pad for direct mount actuator per ISO 5211.
- Pressure range: 150 PSI: 2-1/2" to 10", 120 PSI: 12".

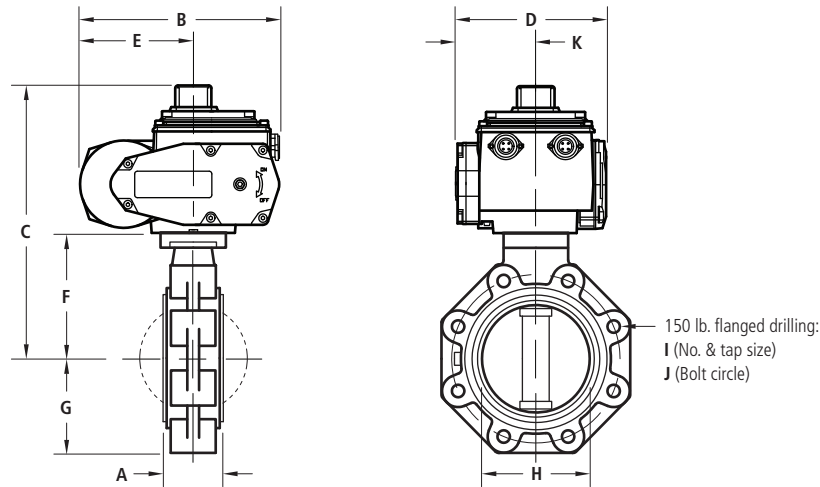
ELECTRIC ACTUATOR FEATURES

- K Series electric actuator.
- Actuator speed: 25 sec.
- Most voltages available.
- Quarter turn: 0-90° rotation.
- NEMA 4/4X certified by UL labs.
- ISO 5211 mounting standard.
- Visual position indicator.
- Self-locking drive train.
- Mounts in any direction.
- 1/2" NPT conduit connection.
- CSA-NRTL/C and CE certified.
- Temperature range: 0°F to 160°F.

FKLI4 Series

Lug style butterfly valve with electric actuator NEMA 4, 4X

(Actuators are sized for 150 PSI liquid media line pressure, contact factory for higher line pressure ratings)



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	C	D	E	F	G	H	I	J	K	Actuator	Wt. (lbs.)	Model No.
2-1/2"	1.81	7.56	10.09	5.20	3.58	4.69	3.15	2.56	(4) 5/8"-11	5.50	2.21	I40300	10.1	IFKLEPP⊙I4⊙
3"	1.93	7.56	10.64	5.20	3.58	5.24	3.66	3.15	(4) 5/8"-11	6.00	2.21	I40300	11.0	JFKLEPP⊙I4⊙
4"	2.20	7.56	11.19	5.36	3.58	5.79	4.21	3.94	(8) 5/8"-11	7.50	2.37	I40600	11.8	KFKLEPP⊙I4⊙
5"	2.52	8.73	12.74	6.30	4.75	6.57	4.72	4.92	(8) 3/4"-10	8.50	3.31	I42100	22.1	LFKLEPP⊙I4⊙
6"	2.76	8.73	13.26	6.30	4.75	7.09	5.28	5.91	(8) 3/4"-10	9.50	3.31	I42100	23.8	MFKLEPP⊙I4⊙
8"	2.80	8.73	15.11	6.30	4.75	8.94	6.34	7.87	(8) 3/4"-10	11.75	3.31	I42100	29.7	NFKLEPP⊙I4⊙

⊙ Seat: **E** = EPDM; **V** = Viton®. ⊙ Voltage: **A** = 120 VAC; **B** = 24 VDC.

FKL VALVE FEATURES

- Lug style butterfly valve.
- Polypropylene PP body, disc and stem.
- EPDM or Viton® seats.
- Mounting pad for direct mount actuator per ISO 5211.
- Pressure range: 150 PSI.

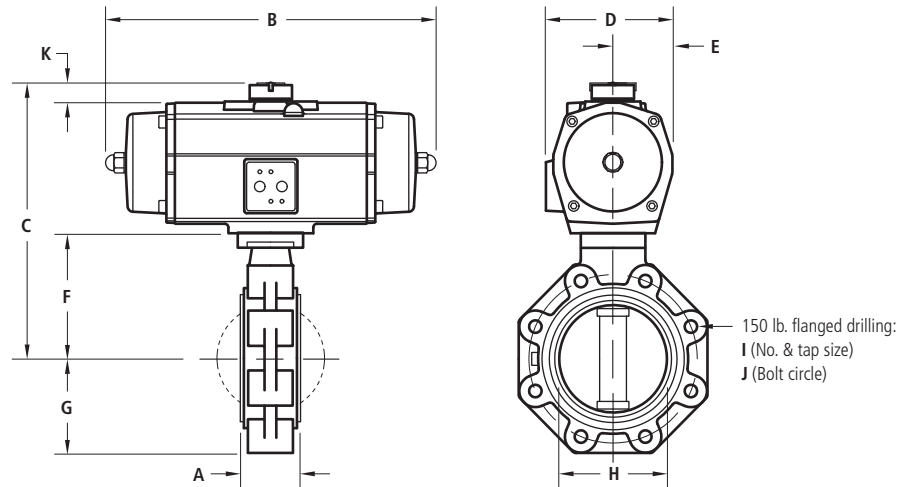
ELECTRIC ACTUATOR FEATURES

- I4 Series electric actuator.
- Weatherproof enclosure IP65.
- Voltages available: 115 VAC, 24 VAC/VDC.
- Duty cycle: 50%.
- IP65 electrical connectors.
- Space heater.
- Extra (2) SPDT adjustable limit switches.
- Temperature range: 0°F to 140°F.

FKLESR Series

Lug style butterfly valve with spring return pneumatic actuator

(Actuators are sized for 150 PSI liquid media line pressure, contact factory for higher line pressure ratings)



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	C	D	E	F	G	H	I	J	K	Actuator	Wt. (lbs.)	Model No.
80 psig Minimum Actuator Air Supply = 85														
2-1/2"	1.81	8.03	9.14	3.78	1.70	4.69	3.15	2.56	(4) 5/8"-11	5.50	.79	ES40-5	7.5	IFKLEPP⊙E8S
3"	1.93	9.80	10.16	4.19	1.93	5.24	3.66	3.15	(4) 5/8"-11	6.00	.79	ES65-5	11.0	JFKLEPP⊙E8S
4"	2.20	14.17	12.21	5.39	2.52	5.79	4.21	3.94	(8) 5/8"-11	7.50	.79	ES200-5	24.0	KFKLEPP⊙E8S
5"	2.52	14.17	12.99	5.39	2.52	6.57	4.72	4.92	(8) 3/4"-10	8.50	.79	ES200-5	25.7	LFKLEPP⊙E8S
6"	2.76	15.24	15.01	7.12	3.41	7.09	5.28	5.91	(8) 3/4"-10	9.50	.79	ES350-5	44.6	MFKLEPP⊙E8S
8"	2.80	15.24	16.86	7.12	3.41	8.94	6.34	7.87	(8) 3/4"-10	11.75	.79	ES350-5	50.5	NFKLEPP⊙E8S
10"	4.49	20.35	21.14	9.51	4.54	9.76	8.27	9.84	(12) 7/8"-9	14.25	1.18	ES950-5	112.1	OFKLEPP⊙E8S
12"	4.49	25.08	24.88	10.81	5.21	12.01	9.65	11.81	(12) 7/8"-9	17.00	1.18	ES1600-5	187.0	PFKLEPP⊙E8S
60 psig Minimum Actuator Air Supply = 65														
2-1/2"	1.81	8.03	9.29	3.78	1.70	4.69	3.15	2.56	(4) 5/8"-11	5.50	.79	ES40-3	7.5	IFKLEPP⊙E6S
3"	1.93	9.80	10.51	4.19	1.93	5.24	3.66	3.15	(4) 5/8"-11	6.00	.79	ES65-3	11.0	JFKLEPP⊙E6S
4"	2.20	14.17	12.40	5.39	2.52	5.79	4.21	3.94	(8) 5/8"-11	7.50	.79	ES200-3	24.0	KFKLEPP⊙E6S
5"	2.52	14.17	13.35	5.39	2.52	6.57	4.72	4.92	(8) 3/4"-10	8.50	.79	ES200-3	25.7	LFKLEPP⊙E6S
6"	2.76	15.24	15.36	7.12	3.41	7.09	5.28	5.91	(8) 3/4"-10	9.50	.79	ES350-3	44.6	MFKLEPP⊙E6S
8"	2.80	15.24	16.38	7.12	3.41	8.94	6.34	7.87	(8) 3/4"-10	11.75	.79	ES350-3	50.5	NFKLEPP⊙E6S
10"	4.49	20.35	21.14	9.51	4.54	9.76	8.27	9.84	(12) 7/8"-9	14.25	1.18	ES950-3	112.1	OFKLEPP⊙E6S
12"	4.49	25.08	24.88	10.81	5.21	12.01	9.65	11.81	(12) 7/8"-9	17.00	1.18	ES1600-3	187.0	PFKLEPP⊙E6S

⊙ Seat: E = EPDM; V = Viton®.

FKL VALVE FEATURES

- Lug style butterfly valve.
- Polypropylene PP body, disc and stem.
- EPDM or Viton® seats.
- Mounting pad for direct mount actuator per ISO 5211.
- Pressure range: 150 PSI: 2-1/2" to 10", 120 PSI: 12".

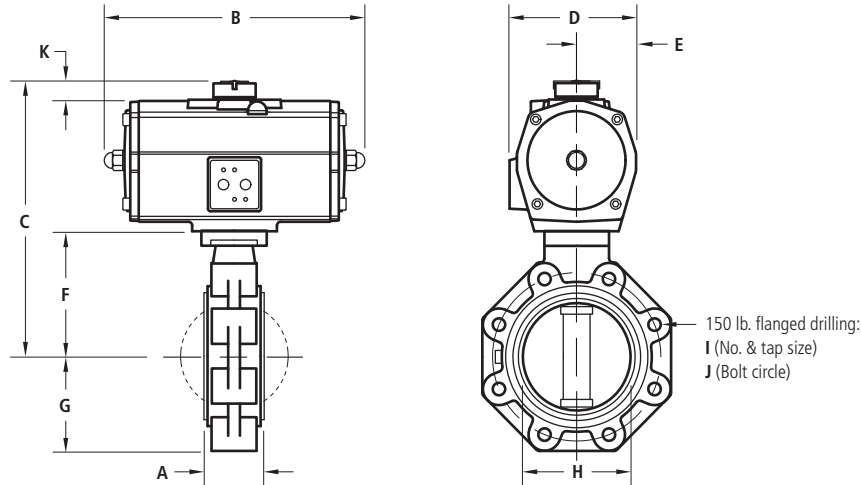
PNEUMATIC ACTUATOR FEATURES

- E Series spring return rack and pinion actuator.
- Corrosion resistant coating.
- NAMUR solenoid mounting pad, ISO 5211 mounting standard.
- Visual position indicator.
- High duty cycle, permanent lubrication.
- Temperature range: -4°F to 175°F.

FKLEDA Series

Lug style butterfly valve with double acting pneumatic actuator

(Actuators are sized for 150 PSI liquid media line pressure, contact factory for higher line pressure ratings)



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	C	D	E	F	G	H	I	J	K	Actuator	Wt. (lbs.)	Model No.
80 psig Minimum Actuator Air Supply = 8D														
2-1/2"	1.81	6.26	8.63	3.26	1.46	4.69	3.15	2.56	(4) 5/8"-11	5.50	.79	ED25	5.1	IFKLEPP⊙E8D
3"	1.93	7.83	10.16	4.19	1.93	5.24	3.66	3.15	(4) 5/8"-11	6.00	.79	ED65	8.4	JFKLEPP⊙E8D
4"	2.20	7.83	10.71	4.19	1.93	5.79	4.21	3.94	(8) 5/8"-11	7.50	.79	ED65	9.2	KFKLEPP⊙E8D
5"	2.52	8.70	12.01	4.60	2.12	6.57	4.72	4.92	(8) 3/4"-10	8.50	.79	ED100	12.4	LFKLEPP⊙E8D
6"	2.76	11.14	13.51	5.39	2.52	7.09	5.28	5.91	(8) 3/4"-10	9.50	.79	ED200	20.1	MFKLEPP⊙E8D
8"	2.80	11.14	15.36	5.39	2.52	8.94	6.34	7.87	(8) 3/4"-10	11.75	.79	ED200	26.0	NFKLEPP⊙E8D
10"	4.49	12.01	17.68	7.12	3.41	9.76	8.27	9.84	(12) 7/8"-9	14.25	.79	ED350	49.4	OFKLEPP⊙E8D
12"	4.49	15.24	21.85	8.52	4.08	12.01	9.65	11.81	(12) 7/8"-9	17.00	1.18	ED600	84.7	PFKLEPP⊙E8D
60 psig Minimum Actuator Air Supply = 6D														
2-1/2"	1.81	6.26	8.63	3.26	1.46	4.69	3.15	2.56	(4) 5/8"-11	5.50	.79	ED25	5.1	IFKLEPP⊙E6D
3"	1.93	7.09	9.69	3.78	1.70	5.24	3.66	3.15	(4) 5/8"-11	6.00	.79	ED40	7.1	JFKLEPP⊙E6D
4"	2.20	8.70	11.23	4.60	2.12	5.79	4.21	3.94	(8) 5/8"-11	7.50	.79	ED100	10.7	KFKLEPP⊙E6D
5"	2.52	8.70	12.01	4.60	2.12	6.57	4.72	4.92	(8) 3/4"-10	8.50	.79	ED100	12.4	LFKLEPP⊙E6D
6"	2.76	11.14	13.51	5.39	2.52	7.09	5.28	5.91	(8) 3/4"-10	9.50	.79	ED200	20.1	MFKLEPP⊙E6D
8"	2.80	12.01	16.86	7.12	3.41	8.94	6.34	7.87	(8) 3/4"-10	11.75	.79	ED350	36.1	NFKLEPP⊙E6D
10"	4.49	15.24	19.60	8.52	4.08	9.76	8.27	9.84	(12) 7/8"-9	14.25	1.18	ED600	69.3	OFKLEPP⊙E6D
12"	4.49	15.24	21.85	8.52	4.08	12.01	9.65	11.81	(12) 7/8"-9	17.00	1.18	ED600	84.7	PFKLEPP⊙E6D

⊙ Seat: E = EPDM; V = Viton®.

FKL VALVE FEATURES

- Lug style butterfly valve.
- Polypropylene PP body, disc and stem.
- EPDM or Viton® seats.
- Mounting pad for direct mount actuator per ISO 5211.
- Pressure range: 150 PSI: 2-1/2" to 10", 120 PSI: 12".

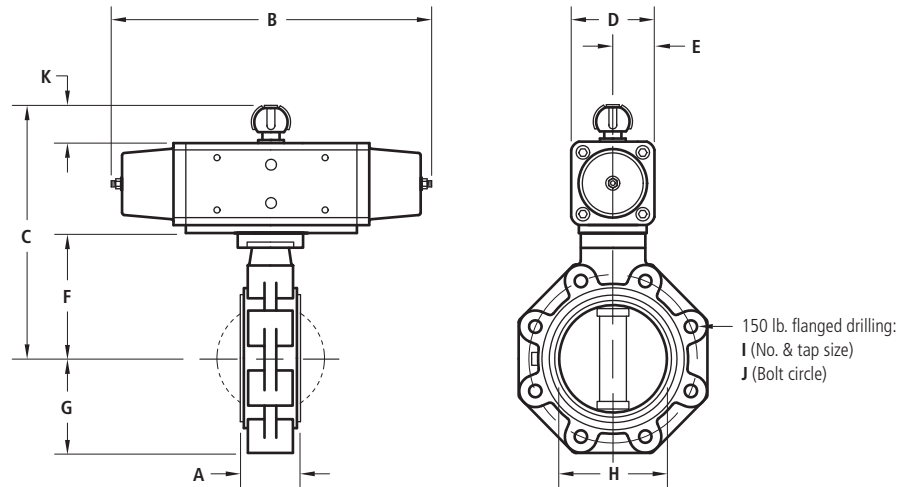
PNEUMATIC ACTUATOR FEATURES

- E Series double acting rack and pinion actuator.
- Corrosion resistant coating.
- NAMUR solenoid mounting pad, ISO 5211 mounting standard.
- Visual position indicator.
- High duty cycle, permanent lubrication.
- Temperature range: -4°F to 175°F.

FKLOSR Series

Lug style butterfly valve with spring return pneumatic actuator

(Actuators are sized for 150 PSI liquid media line pressure, contact factory for higher line pressure ratings)



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	C	D	E	F	G	H	I	J	K	Actuator	Wt. (lbs.)	Model No.
80 psig Minimum Actuator Air Supply = 85														
2-1/2"	1.81	9.45	10.31	2.56	1.28	4.69	3.15	2.56	(4) 5/8"-11	5.50	.79	PS030	6.6	IFKLEPP008S
3"	1.93	12.60	11.06	3.15	1.57	5.24	3.66	3.15	(4) 5/8"-11	6.00	1.18	PS060	10.8	JFKLEPP008S
4"	2.20	14.06	11.51	3.54	1.77	5.79	4.21	3.94	(8) 5/8"-11	7.50	1.18	PS090	14.0	KFKLEPP008S
5"	2.52	14.65	13.70	3.94	1.97	6.57	4.72	4.92	(8) 3/4"-10	8.50	1.18	PS120	20.3	LFKLEPP008S
6"	2.76	17.18	14.41	4.41	2.20	7.09	5.28	5.91	(8) 3/4"-10	9.50	1.18	PS180	28.0	MFKLEPP008S
60 psig Minimum Actuator Air Supply = 65														
2-1/2"	1.81	9.45	10.31	2.56	1.28	4.69	3.15	2.56	(4) 5/8"-11	5.50	.79	PS030	6.6	IFKLEPP006S
3"	1.93	14.06	10.20	3.54	1.77	5.24	3.66	3.15	(4) 5/8"-11	6.00	1.18	PS090	13.2	JFKLEPP006S
4"	2.20	14.65	11.14	3.94	1.97	5.79	4.21	3.94	(8) 5/8"-11	7.50	1.18	PS120	18.6	KFKLEPP006S
5"	2.52	17.18	12.39	4.41	2.20	6.57	4.72	4.92	(8) 3/4"-10	8.50	1.18	PS180	26.3	LFKLEPP006S

⊙ Seat: E = EPDM; V = Viton®.

FKL VALVE FEATURES

- Lug style butterfly valve.
- Polypropylene PP body, disc and stem.
- EPDM or Viton® seats.
- Mounting pad for direct mount actuator per ISO 5211.
- Pressure range: 150 PSI.

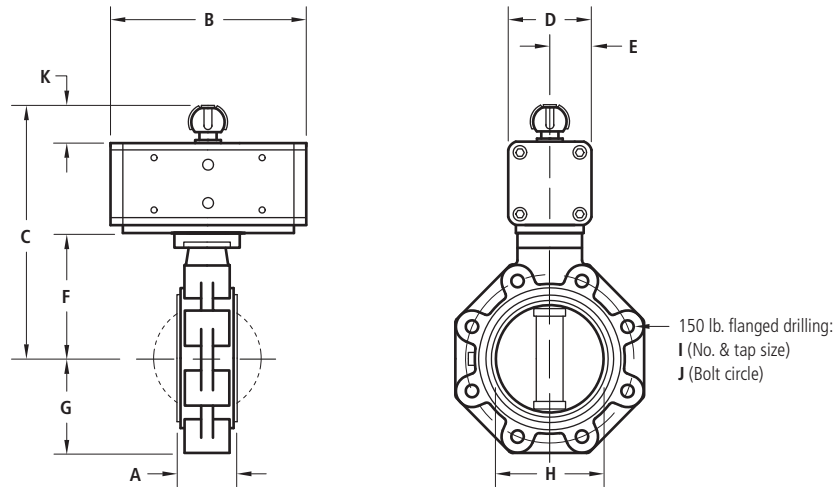
PNEUMATIC ACTUATOR FEATURES

- O Series spring return pneumatic actuator.
- Corrosion resistant coating.
- NAMUR solenoid mounting pad, ISO 5211 mounting standard.
- Visual position indicators.
- High duty cycle, permanent lubrication.
- Temperature range: -4°F to 175°F.

FKLODA Series

Lug style butterfly valve with double acting pneumatic actuator

(Actuators are sized for 150 PSI liquid media line pressure, contact factory for higher line pressure ratings)



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	C	D	E	F	G	H	I	J	K	Actuator	Wt. (lbs.)	Model No.
80 psig Minimum Actuator Air Supply = 8D														
2-1/2"	1.81	5.67	8.06	2.36	1.18	4.69	3.15	2.56	(4) 5/8"-11	5.50	.79	PD045	5.0	IFKLEPP008D
3"	1.93	6.65	9.08	2.83	1.41	5.24	3.66	3.15	(4) 5/8"-11	6.00	.79	PD090	7.2	JFKLEPP008D
4"	2.20	6.65	9.63	2.83	1.41	5.79	4.21	3.94	(8) 5/8"-11	7.50	.79	PD090	8.0	KFKLEPP008D
5"	2.52	8.35	11.53	3.54	1.77	6.57	4.72	4.92	(8) 3/4"-10	8.50	1.18	PD180	13.1	LFKLEPP008D
6"	2.76	8.35	12.05	3.54	1.77	7.09	5.28	5.91	(8) 3/4"-10	9.50	1.18	PD180	14.8	MFKLEPP008D
60 psig Minimum Actuator Air Supply = 6D														
2-1/2"	1.81	6.65	8.53	2.83	1.41	4.69	3.15	2.56	(4) 5/8"-11	5.50	.79	PD090	6.3	IFKLEPP006D
3"	1.93	6.65	9.08	2.83	1.41	5.24	3.66	3.15	(4) 5/8"-11	6.00	.79	PD090	7.2	JFKLEPP006D
4"	2.20	7.24	10.35	3.15	1.57	5.79	4.21	3.94	(8) 5/8"-11	7.50	1.18	PD120	10.1	KFKLEPP006D
5"	2.52	8.35	11.53	3.54	6.57	6.57	4.72	4.92	(8) 3/4"-10	8.50	1.18	PD180	13.1	LFKLEPP006D

⊙ Seat: **E** = EPDM; **V** = Viton®.

FKL VALVE FEATURES

- Lug style butterfly valve.
- Polypropylene PP body, disc and stem.
- EPDM or Viton® seats.
- Mounting pad for direct mount actuator per ISO 5211.
- Pressure range: 150 PSI.

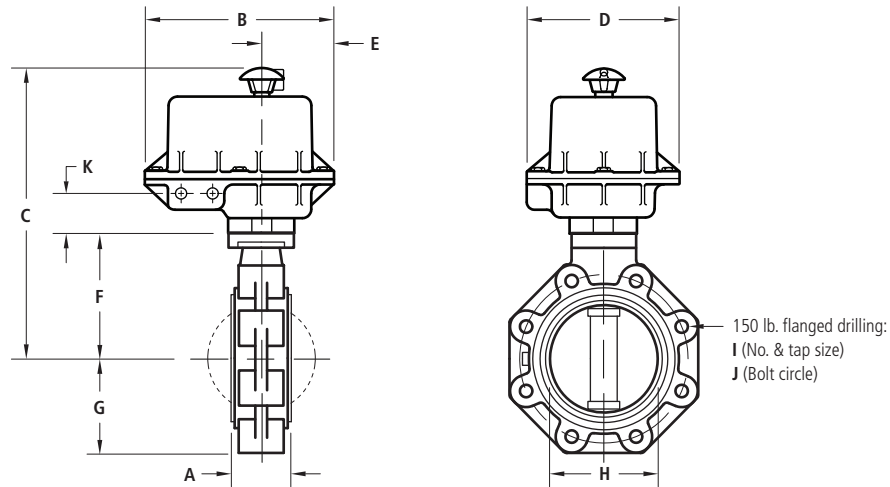
PNEUMATIC ACTUATOR FEATURES

- O Series double acting pneumatic actuator.
- Corrosion resistant coating.
- NAMUR solenoid mounting pad, ISO 5211 mounting standard.
- Visual position indicators.
- High duty cycle, permanent lubrication.
- Temperature range: -4°F to 175°F.

FKLB7 Series 2-1/2" to 6" Sizes

Lug style butterfly valve with explosion proof electric actuator, NEMA 7, 120 VAC

(Actuators are sized for 150 PSI liquid media line pressure, contact factory for higher line pressure ratings)



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	C	D	E	F	G	H	I	J	K	Actuator	Wt. (lbs.)	Model No.
2-1/2"	1.81	9.75	14.13	7.75	3.75	4.69	3.15	2.56	(4) 5/8"-11	5.50	2.44	BEEM500F	20.2	IFKLEPP⊙B7
3"	1.93	9.75	14.68	7.75	3.75	5.24	3.66	3.15	(4) 5/8"-11	6.00	2.44	BEEM500F	21.1	JFKLEPP⊙B7
4"	2.20	9.75	15.23	7.75	3.75	5.79	4.21	3.94	(8) 5/8"-11	7.50	2.44	BEEM500F	21.9	KFKLEPP⊙B7
5"	2.52	9.75	16.01	7.75	3.75	6.57	4.72	4.92	(8) 3/4"-10	8.50	2.44	BEEM500F	23.6	LFKLEPP⊙B7
6"	2.76	9.75	16.53	7.75	3.75	7.09	5.28	5.91	(8) 3/4"-10	9.50	2.44	BEEM500F	25.3	MFKLEPP⊙B7

⊙ Seat: E = EPDM; V = Viton®.

FKL VALVE FEATURES

- Lug style butterfly valve.
- Polypropylene PP body, disc and stem.
- EPDM or Viton® seats.
- Mounting pad for direct mount actuator per ISO 5211.
- Pressure range: 150 PSI.

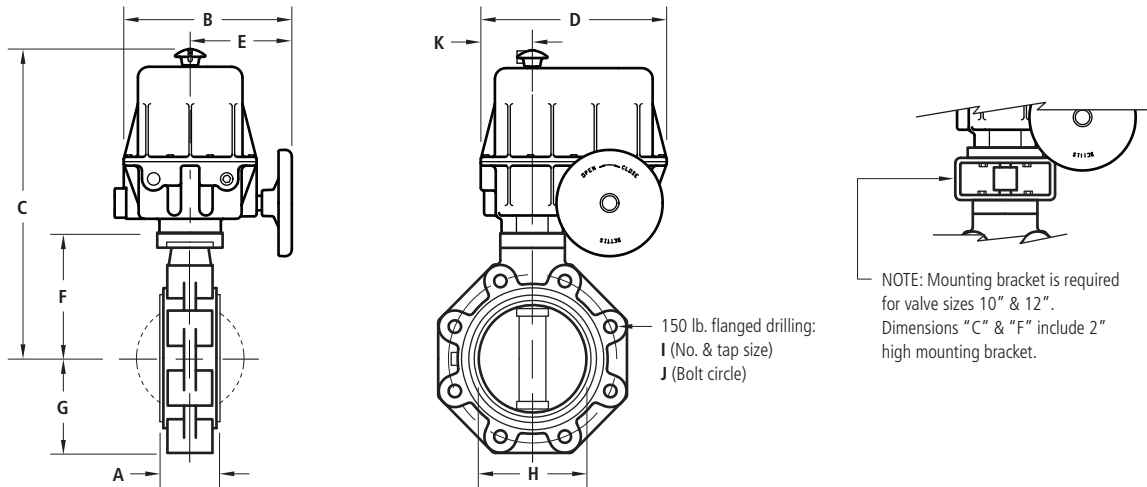
ELECTRIC ACTUATOR FEATURES

- B7 Series electric actuator.
- Actuator speed: 15 sec.
- NEMA 4, 4x, 7 and 9; CSA approved.
- Weatherproof.
- Class I Groups C and D, Div. 1.
- Class II Groups E, F and G.
- (2) 1/2" NPT conduit entries.
- Manual override.
- Visual position indicator.
- CSA certified.
- Temperature range: 0°F to 160°F.

FKLB7 Series 8" to 12" Sizes

Lug style butterfly valve with explosion proof electric actuator, NEMA 7, 120 VAC

(Actuators are sized for 150 PSI liquid media line pressure, contact factory for higher line pressure ratings)



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	C	D	E	F	G	H	I	J	K	Actuator	Wt. (lbs.)	Model No.
8"	2.80	13.31	24.32	14.00	7.62	8.94	6.34	7.87	(8) 3/4"-10	11.75	3.88	BEEM800F	173.2	NFKLEPP⊙B7
10"	4.49	13.31	27.14	14.00	7.62	9.76	8.27	9.84	(12) 7/8"-9	14.25	3.88	BEEM800F	186.5	OFKLEPP⊙B7
12"	4.49	13.31	29.39	14.00	7.62	12.01	9.65	11.81	(12) 7/8"-9	17.00	3.88	BEEM800F	201.9	PFKLEPP⊙B7

⊙ Seat: E = EPDM; V = Viton®.

FKL VALVE FEATURES

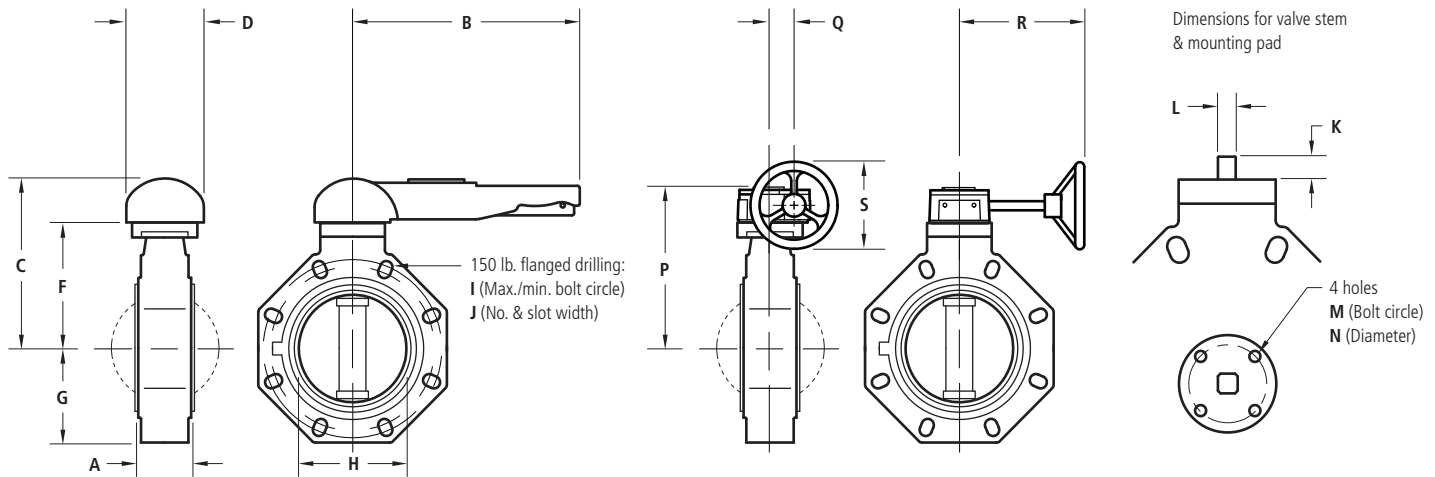
- Lug style butterfly valve.
- Polypropylene PP body, disc and stem.
- EPDM or Viton® seats.
- Mounting pad for direct mount actuator per ISO 5211.
- Pressure range: 150 PSI: 8" to 10", 120 PSI: 12".

ELECTRIC ACTUATOR FEATURES

- B7 Series electric actuator.
- Actuator speed: 18 sec.
- NEMA 4, 7 and 9; CSA approved.
- Weatherproof.
- Class I Groups C and D, Div. 1.
- Class II Groups E, F and G.
- (2) 1/2" NPT conduit entries.
- Manual override.
- Visual position indicator.
- CSA certified.
- Temperature range: 0°F to 160°F.

FKWM / FKWG Series

Wafer style butterfly valve with latch handle (FKWM) or gear operator (FKWG)
 (Manual operation)



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	C	D	F	G	H	I (max.)	I (min.)	J	Wt.* (lbs.)	Model No.
1-1/2"	1.30	6.81	5.39	3.94	4.17	2.36	1.57	4.29	3.90	(4) .75	2.8	GFKWEPPOM
2"	1.69	6.81	5.63	3.94	4.41	2.76	1.97	4.94	4.53	(4) .75	3.0	HFKEPPOM
2-1/2"	1.81	10.71	6.46	4.33	4.69	3.15	2.56	5.67	5.04	(4) .75	3.5	IFKEPPOM
3"	1.93	10.71	7.01	4.33	5.24	3.66	3.15	6.30	5.71	(4) .75	4.1	JFKEPPOM
4"	2.20	10.71	7.56	4.33	5.79	4.21	3.94	7.48	6.50	(8) .75	4.9	KFKEPPOM
5"	2.52	12.99	8.35	4.33	6.57	4.72	4.92	8.46	8.03	(8) .91	6.8	LFKEPPOM
6"	2.76	12.99	8.86	4.33	7.09	5.28	5.91	9.53	9.06	(8) .91	8.5	MFKEPPOM
8"	2.80	16.54	10.71	4.80	8.94	6.34	7.87	11.73	11.02	(8) .91	14.9	NFKEPPOM
10"	4.49	-	-	-	9.76	8.27	9.84	14.25	13.19	(12) 1.00	-	-
12"	4.49	-	-	-	12.01	9.65	11.81	17.01	15.35	(12) 1.14	-	-

* Weight includes handle. ○ Seat: E = EPDM; V = Viton®.

MOUNTING DIMENSIONS & SPECIFICATIONS

Size	K	L	ISO	M	N
1-1/2"	0.47	0.43	F05	1.97	0.28
2"	0.47	0.43	F05	1.97	0.28
2-1/2"	0.47	0.43	F05 / F07	1.97 / 2.76	0.28 / 0.35
3"	0.63	0.55	F07	2.76	0.35
4"	0.63	0.55	F07	2.76	0.35
5"	0.75	0.67	F07	2.76	0.35
6"	0.75	0.67	F07	2.76	0.35
8"	0.94	0.87	F10	4.02	0.43
10"	1.14	1.06	F10 / F12 / F14	4.02 / 4.92 / 5.51	0.43 / 0.51 / 0.67
12"	1.14	1.06	F10 / F12 / F14	4.02 / 4.92 / 5.51	0.43 / 0.51 / 0.67

ADDITIONAL DIMENSIONS & SPECIFICATIONS

Size	P	Q	R	S	Wt.* (lbs.)	Model No.
1-1/2"	-	-	-	-	-	-
2"	-	-	-	-	-	-
2-1/2"	6.85	1.54	5.31	4.92	5.3	IFKEPPOG
3"	7.40	1.54	5.31	4.92	6.2	JFKEPPOG
4"	7.95	1.54	5.31	4.92	6.9	KFKEPPOG
5"	8.74	1.54	5.67	7.87	9.8	LFKEPPOG
6"	9.25	1.54	5.67	7.87	11.5	MFKEPPOG
8"	11.30	2.36	8.03	7.87	20.5	NFKEPPOG
10"	12.48	2.99	9.29	9.84	41.0	OFKEPPOG
12"	14.72	2.99	9.29	9.84	56.4	PFKEPPOG

* Weight includes gear operator. ○ Seat: E = EPDM; V = Viton®.

FKW VALVE FEATURES

- Wafer style butterfly valve.
- Polypropylene PP body, disc and stem, EPDM or Viton® seats.
- Mounting pad for direct mount actuator per ISO 5211.
- Pressure range: 150 PSI: 1-1/2" to 10", 120 PSI: 12".

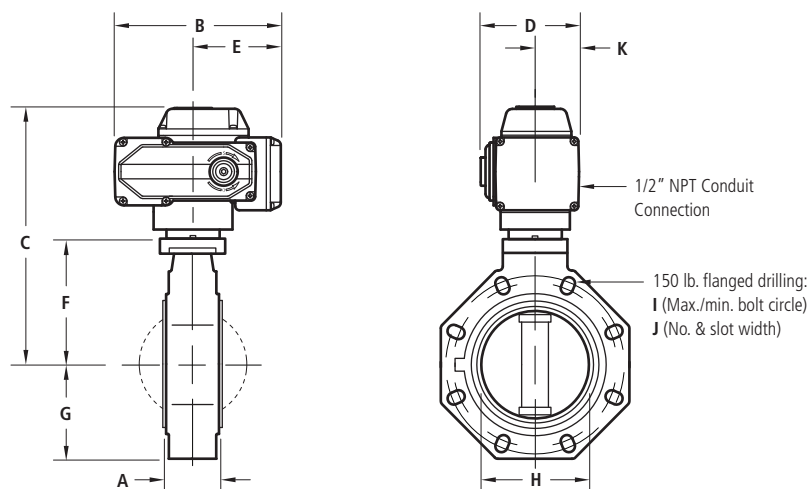
LEVER HANDLE FEATURES

- Adjustable locking device.

FKWK4 Series

Wafer style butterfly valve with electric actuator

(Actuators are sized for 150 PSI liquid media line pressure, contact factory for higher line pressure ratings)



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	C	D	E	F	G	H	I (max.)	I (min.)	J	K	Actuator	Wt. (lbs.)	Model No.
1-1/2"	1.30	6.25	8.27	4.50	3.00	4.17	2.36	1.57	4.29	3.90	(4) .75	2.00	UNIC05	5.9	GFKWEPP○K4
2"	1.69	6.25	8.51	4.50	3.00	4.41	2.76	1.97	4.94	4.53	(4) .75	2.00	UNIC05	6.3	HFKWEPP○K4
2-1/2"	1.81	6.25	8.79	4.50	3.00	4.69	3.15	2.56	5.67	5.04	(4) .75	2.00	UNIC05	6.8	IFKWEPP○K4
3"	1.93	6.25	9.34	4.50	3.00	5.24	3.66	3.15	6.30	5.71	(4) .75	2.00	UNIC05	7.7	JFKWEPP○K4
4"	2.20	8.17	12.23	4.82	4.33	5.79	4.21	3.94	7.48	6.50	(8) .75	2.14	UNIC10	13.9	KFKWEPP○K4
5"	2.52	8.17	13.01	4.82	4.33	6.57	4.72	4.92	8.46	8.03	(8) .91	2.14	UNIC10	15.6	LFKWEPP○K4
6"	2.76	10.10	14.37	8.16	5.25	7.09	5.28	5.91	9.53	9.06	(8) .91	2.48	UNIC20	25.3	MFKWEPP○K4
8"	2.80	10.10	16.22	8.16	5.25	8.94	6.34	7.87	11.73	11.02	(8) .91	2.48	UNIC20	31.2	NFKWEPP○K4
10"	4.49	15.00	18.97	9.53	7.85	9.76	8.27	9.84	14.25	13.19	(12) 1.00	4.13	UNIC60	70.7	OFKWEPP○K4
12"	4.49	15.00	21.22	9.53	7.85	12.01	9.65	11.81	17.01	15.35	(12) 1.14	4.13	UNIC60	88.1	PFKWEPP○K4

○ Seat: E = EPDM; V = Viton®.

FKW VALVE FEATURES

- Wafer style butterfly valve.
- Polypropylene PP body, disc and stem.
- EPDM or Viton® seats.
- Mounting pad for direct mount actuator per ISO 5211.
- Pressure range: 150 PSI: 1-1/2" to 10", 120 PSI: 12".

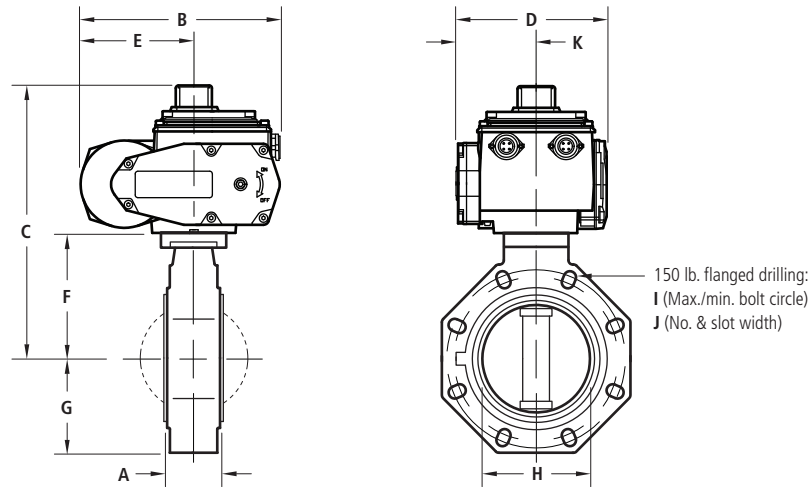
ELECTRIC ACTUATOR FEATURES

- K Series electric actuator.
- Actuator speed: 25 sec.
- Most voltages available.
- Quarter turn: 0-90° rotation.
- NEMA 4/4X certified by UL labs.
- ISO 5211 mounting standard.
- Visual position indicator.
- Self-locking drive train.
- Mounts in any direction.
- 1/2" NPT conduit connection.
- CSA-NRTL/C and CE certified.
- Temperature range: 0°F to 160°F.

FKWI4 Series

Wafer style butterfly valve with electric actuator NEMA 4, 4X

(Actuators are sized for 150 PSI liquid media line pressure, contact factory for higher line pressure ratings)



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	C	D	E	F	G	H	I (max.)	I (min.)	J	K	Actuator	Wt. (lbs.)	Model No.
1-1/2"	1.30	7.56	9.57	5.20	3.58	4.17	2.36	1.57	4.29	3.90	(4) .75	2.21	I40300	9.2	GFKWEPPⓈI4Ⓢ
2"	1.69	7.56	9.81	5.20	3.58	4.41	2.76	1.97	4.94	4.53	(4) .75	2.21	I40300	9.6	HFKWEPPⓈI4Ⓢ
2-1/2"	1.81	7.56	10.09	5.20	3.58	4.69	3.15	2.56	5.67	5.04	(4) .75	2.21	I40300	10.1	IFKWEPPⓈI4Ⓢ
3"	1.93	7.56	10.64	5.20	3.58	5.24	3.66	3.15	6.30	5.71	(4) .75	2.21	I40300	11.0	JFKWEPPⓈI4Ⓢ
4"	2.20	7.56	11.19	5.36	3.58	5.79	4.21	3.94	7.48	6.50	(8) .75	2.37	I40600	11.8	KFKWEPPⓈI4Ⓢ
5"	2.52	8.73	12.74	6.30	4.75	6.57	4.72	4.92	8.46	8.03	(8) .91	3.31	I42100	22.1	LFKWEPPⓈI4Ⓢ
6"	2.76	8.73	13.26	6.30	4.75	7.09	5.28	5.91	9.53	9.06	(8) .91	3.31	I42100	23.8	MFKWEPPⓈI4Ⓢ
8"	2.80	8.73	15.11	6.30	4.75	8.94	6.34	7.87	11.73	11.02	(8) .91	3.31	I42100	29.7	NFKWEPPⓈI4Ⓢ

Ⓢ Seat: **E** = EPDM; **V** = Viton®. Ⓢ Voltage: **A** = 120 VAC; **B** = 24 VDC.

FKW VALVE FEATURES

- Wafer style butterfly valve.
- Polypropylene PP body, disc and stem.
- EPDM or Viton® seats.
- Mounting pad for direct mount actuator per ISO 5211.
- Pressure range: 150 PSI.

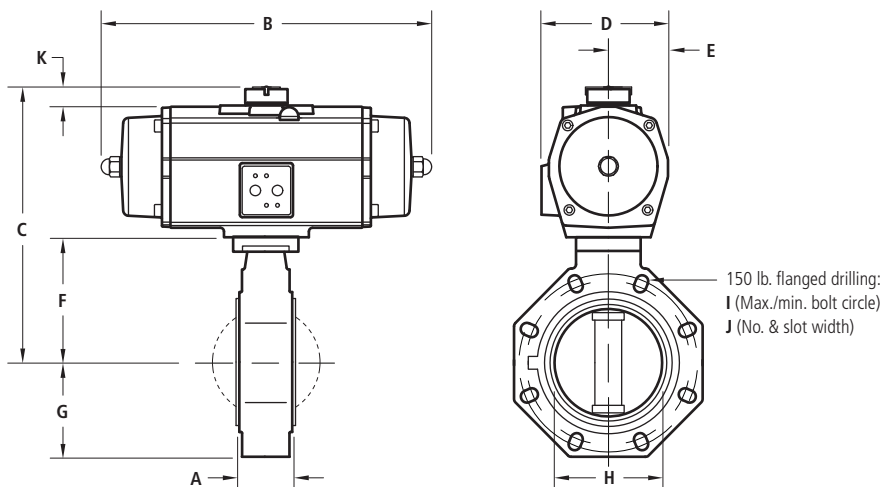
ELECTRIC ACTUATOR FEATURES

- I4 Series electric actuator.
- Weatherproof enclosure IP65.
- Voltages available: 115 VAC, 24 VAC/VDC.
- Duty cycle: 50%.
- IP65 electrical connectors.
- Space heater.
- Extra (2) SPDT adjustable limit switches.
- Temperature range: 0°F to 140°F.

FKWESR Series

Wafer style butterfly valve with spring return pneumatic actuator

(Actuators are sized for 150 PSI liquid media line pressure, contact factory for higher line pressure ratings)



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	C	D	E	F	G	H	I (max.)	I (min.)	J	K	Actuator	Wt. (lbs.)	Model No.
80 psig Minimum Actuator Air Supply = 85															
1-1/2"	1.30	6.77	8.11	3.26	1.46	4.17	2.36	1.57	4.29	3.90	(4) .75	.79	ES25-5	5.0	GFKWEPP®E8S
2"	1.69	6.77	8.35	3.26	1.46	4.41	2.76	1.97	4.94	4.53	(4) .75	.79	ES25-5	5.4	HFKWEPP®E8S
2-1/2"	1.81	8.03	9.14	3.78	1.70	4.69	3.15	2.56	5.67	5.04	(4) .75	.79	ES40-5	7.5	IFKWEPP®E8S
3"	1.93	9.80	10.16	4.19	1.93	5.24	3.66	3.15	6.30	5.71	(4) .75	.79	ES65-5	11.0	JFKWEPP®E8S
4"	2.20	14.17	12.21	5.39	2.52	5.79	4.21	3.94	7.48	6.50	(8) .75	.79	ES200-5	24.0	KFKWEPP®E8S
5"	2.52	14.17	12.99	5.39	2.52	6.57	4.72	4.92	8.46	8.03	(8) .91	.79	ES200-5	25.7	LFKWEPP®E8S
6"	2.76	15.24	15.01	7.12	3.41	7.09	5.28	5.91	9.53	9.06	(8) .91	.79	ES350-5	44.6	MFKWEPP®E8S
8"	2.80	15.24	16.86	7.12	3.41	8.94	6.34	7.87	11.73	11.02	(8) .91	.79	ES350-5	50.5	NFKWEPP®E8S
10"	4.49	20.35	21.14	9.51	4.54	9.76	8.27	9.84	14.25	13.19	(12) 1.00	1.18	ES950-5	112.1	OFKWEPP®E8S
12"	4.49	25.08	24.88	10.81	5.21	12.01	9.65	11.81	17.01	15.35	(12) 1.14	1.18	ES1600-5	187.0	PFKWEPP®E8S
60 psig Minimum Actuator Air Supply = 65															
1-1/2"	1.30	6.77	8.11	3.26	1.46	4.17	2.36	1.57	4.29	3.90	(4) .75	.79	ES25-3	5.0	GFKWEPP®E6S
2"	1.69	6.77	8.39	3.26	1.46	4.41	2.76	1.97	4.94	4.53	(4) .75	.79	ES25-3	5.4	HFKWEPP®E6S
2-1/2"	1.81	8.03	9.29	3.78	1.70	4.69	3.15	2.56	5.67	5.04	(4) .75	.79	ES40-3	7.5	IFKWEPP®E6S
3"	1.93	9.80	10.51	4.19	1.93	5.24	3.66	3.15	6.30	5.71	(4) .75	.79	ES65-3	11.0	JFKWEPP®E6S
4"	2.20	14.17	12.40	5.39	2.52	5.79	4.21	3.94	7.48	6.50	(8) .75	.79	ES200-3	24.0	KFKWEPP®E6S
5"	2.52	14.17	13.35	5.39	2.52	6.57	4.72	4.92	8.46	8.03	(8) .91	.79	ES200-3	25.7	LFKWEPP®E6S
6"	2.76	15.24	15.36	7.12	3.41	7.09	5.28	5.91	9.53	9.06	(8) .91	.79	ES350-3	44.6	MFKWEPP®E6S
8"	2.80	15.24	16.38	7.12	3.41	8.94	6.34	7.87	11.73	11.02	(8) .91	.79	ES350-3	50.5	NFKWEPP®E6S
10"	4.49	20.35	21.14	9.51	4.54	9.76	8.27	9.84	14.25	13.19	(12) 1.00	1.18	ES950-3	112.1	OFKWEPP®E6S
12"	4.49	25.08	24.88	10.81	5.21	12.01	9.65	11.81	17.01	15.35	(12) 1.14	1.18	ES1600-3	187.0	PFKWEPP®E6S

⊙ Seat: E = EPDM; V = Viton®.

FKW VALVE FEATURES

- Wafer style butterfly valve.
- Polypropylene PP body, disc and stem.
- EPDM or Viton® seats.
- Mounting pad for direct mount actuator per ISO 5211.
- Pressure range: 150 PSI: 1-1/2" to 10", 120 PSI: 12".

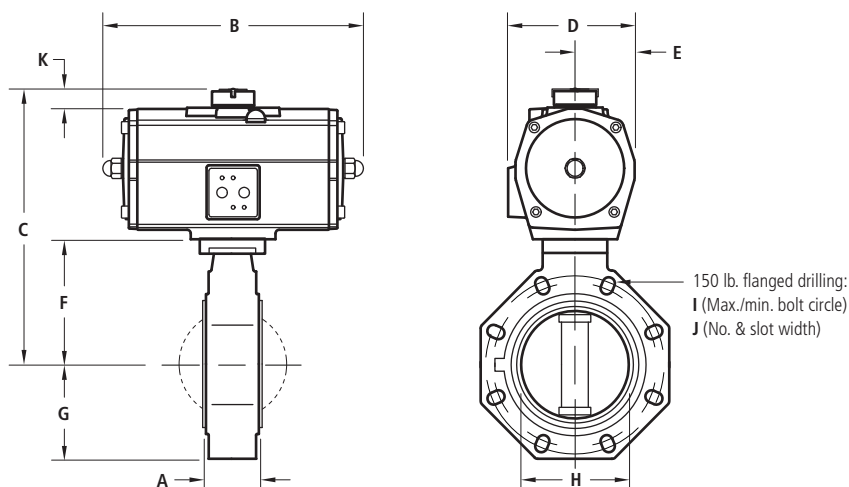
PNEUMATIC ACTUATOR FEATURES

- E Series spring return rack and pinion actuator.
- Corrosion resistant coating.
- NAMUR solenoid mounting pad, ISO 5211 mounting standard.
- Visual position indicator.
- High duty cycle, permanent lubrication.
- Temperature range: -4°F to 175°F.

FKWEDA Series

Wafer style butterfly valve with double acting pneumatic actuator

(Actuators are sized for 150 PSI liquid media line pressure, contact factory for higher line pressure ratings)



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	C	D	E	F	G	H	I (max.)	I (min.)	J	K	Actuator	Wt. (lbs.)	Model No.
80 psig Minimum Actuator Air Supply = 8D															
1-1/2"	1.30	6.26	8.11	3.26	1.46	4.17	2.36	1.57	4.29	3.90	(4) .75	.79	ED25	4.2	GFKWEPP⊙E8D
2"	1.69	6.26	8.35	3.26	1.46	4.41	2.76	1.97	4.94	4.53	(4) .75	.79	ED25	4.6	HFKEWPP⊙E8D
2-1/2"	1.81	6.26	8.63	3.26	1.46	4.69	3.15	2.56	5.67	5.04	(4) .75	.79	ED25	5.1	IFKWEPP⊙E8D
3"	1.93	7.83	10.16	4.19	1.93	5.24	3.66	3.15	6.30	5.71	(4) .75	.79	ED65	8.4	JFKWEPP⊙E8D
4"	2.20	7.83	10.71	4.19	1.93	5.79	4.21	3.94	7.48	6.50	(8) .75	.79	ED65	9.2	KFKWEPP⊙E8D
5"	2.52	8.70	12.01	4.60	2.12	6.57	4.72	4.92	8.46	8.03	(8) .91	.79	ED100	12.4	LFKWEPP⊙E8D
6"	2.76	11.14	13.51	5.39	2.52	7.09	5.28	5.91	9.53	9.06	(8) .91	.79	ED200	20.1	MFKEWPP⊙E8D
8"	2.80	11.14	15.36	5.39	2.52	8.94	6.34	7.87	11.73	11.02	(8) .91	.79	ED200	26.0	NFKWEPP⊙E8D
10"	4.49	12.01	17.68	7.12	3.41	9.76	8.27	9.84	14.25	13.19	(12) 1.00	.79	ED350	49.4	OFKWEPP⊙E8D
12"	4.49	15.24	21.85	8.52	4.08	12.01	9.65	11.81	17.01	15.35	(12) 1.14	1.18	ED600	84.7	PFKWEPP⊙E8D
60 psig Minimum Actuator Air Supply = 6D															
1-1/2"	1.30	6.26	8.11	3.26	1.46	4.17	2.36	1.57	4.29	3.90	(4) .75	.79	ED25	4.2	GFKWEPP⊙E6D
2"	1.69	6.26	8.35	3.26	1.46	4.41	2.76	1.97	4.94	4.53	(4) .75	.79	ED25	4.6	HFKEWPP⊙E6D
2-1/2"	1.81	6.26	8.63	3.26	1.46	4.69	3.15	2.56	5.67	5.04	(4) .75	.79	ED25	5.1	IFKWEPP⊙E6D
3"	1.93	7.09	9.69	3.78	1.70	5.24	3.66	3.15	6.30	5.71	(4) .75	.79	ED40	7.1	JFKWEPP⊙E6D
4"	2.20	8.70	11.23	4.60	2.12	5.79	4.21	3.94	7.48	6.50	(8) .75	.79	ED100	10.7	KFKWEPP⊙E6D
5"	2.52	8.70	12.01	4.60	2.12	6.57	4.72	4.92	8.46	8.03	(8) .91	.79	ED100	12.4	LFKWEPP⊙E6D
6"	2.76	11.14	13.51	5.39	2.52	7.09	5.28	5.91	9.53	9.06	(8) .91	.79	ED200	20.1	MFKEWPP⊙E6D
8"	2.80	12.01	16.86	7.12	3.41	8.94	6.34	7.87	11.73	11.02	(8) .91	.79	ED350	36.1	NFKWEPP⊙E6D
10"	4.49	15.24	19.60	8.52	4.08	9.76	8.27	9.84	14.25	13.19	(12) 1.00	1.18	ED600	69.3	OFKWEPP⊙E6D
12"	4.49	15.24	21.85	8.52	4.08	12.01	9.65	11.81	17.01	15.35	(12) 1.14	1.18	ED600	84.7	PFKWEPP⊙E6D

⊙ Seat: E = EPDM; V = Viton®.

FKW VALVE FEATURES

- Wafer style butterfly valve.
- Polypropylene PP body, disc and stem.
- EPDM or Viton® seats.
- Mounting pad for direct mount actuator per ISO 5211.
- Pressure range: 150 PSI: 1-1/2" to 10", 120 PSI: 12".

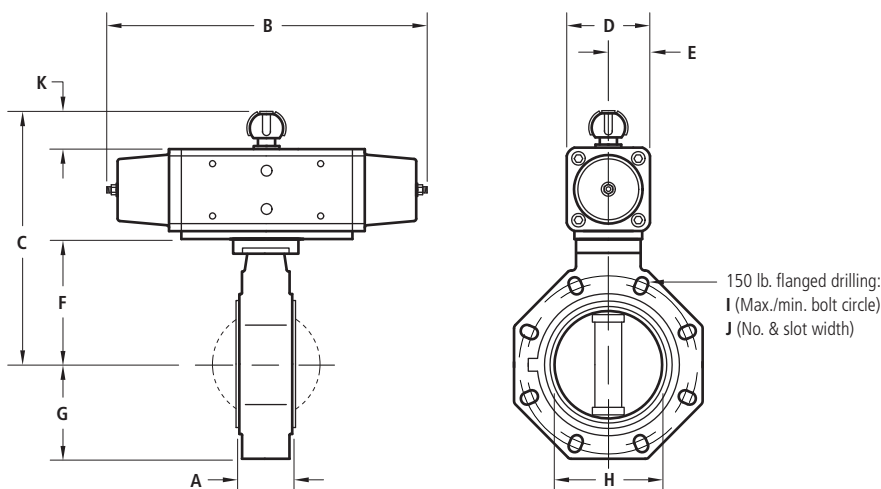
PNEUMATIC ACTUATOR FEATURES

- E Series double acting rack and pinion actuator.
- Corrosion resistant coating.
- NAMUR solenoid mounting pad, ISO 5211 mounting standard.
- Visual position indicator.
- High duty cycle, permanent lubrication.
- Temperature range: -4°F to 175°F.

FKWOSR Series

Wafer style butterfly valve with spring return pneumatic actuator

(Actuators are sized for 150 PSI liquid media line pressure, contact factory for higher line pressure ratings)



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	C	D	E	F	G	H	I (max.)	I (min.)	J	K	Actuator	Wt. (lbs.)	Model No.
80 psig Minimum Actuator Air Supply = 85															
1-1/2"	1.30	9.45	8.11	2.56	1.28	4.17	2.36	1.57	4.29	3.90	(4) .75	.79	PS030	5.7	GFKWEPP008S
2"	1.69	9.45	8.35	2.56	1.28	4.41	2.76	1.97	4.94	4.53	(4) .75	.79	PS030	6.1	HFKEWPP008S
2-1/2"	1.81	9.45	10.31	2.56	1.28	4.69	3.15	2.56	5.67	5.04	(4) .75	.79	PS030	6.6	IFKEWPP008S
3"	1.93	12.60	11.06	3.15	1.57	5.24	3.66	3.15	6.30	5.71	(4) .75	1.18	PS060	10.8	JFKEWPP008S
4"	2.20	14.06	11.51	3.54	1.77	5.79	4.21	3.94	7.48	6.50	(8) .75	1.18	PS090	14.0	KFKEWPP008S
5"	2.52	14.65	13.70	3.94	1.97	6.57	4.72	4.92	8.46	8.03	(8) .91	1.18	PS120	20.3	LFKEWPP008S
6"	2.76	17.18	14.41	4.41	2.20	7.09	5.28	5.91	9.53	9.06	(8) .91	1.18	PS180	28.0	MFKEWPP008S
60 psig Minimum Actuator Air Supply = 65															
1-1/2"	1.30	9.45	8.11	2.56	1.28	4.17	2.36	1.57	4.29	3.90	(4) .75	.79	PS030	5.7	GFKWEPP006S
2"	1.69	9.45	8.35	2.56	1.28	4.41	2.76	1.97	4.94	4.53	(4) .75	.79	PS030	6.1	HFKEWPP006S
2-1/2"	1.81	9.45	10.31	2.56	1.28	4.69	3.15	2.56	5.67	5.04	(4) .75	.79	PS030	6.6	IFKEWPP006S
3"	1.93	14.06	10.20	3.54	1.77	5.24	3.66	3.15	6.30	5.71	(4) .75	1.18	PS090	13.2	JFKEWPP006S
4"	2.20	14.65	11.14	3.94	1.97	5.79	4.21	3.94	7.48	6.50	(8) .75	1.18	PS120	18.6	KFKEWPP006S
5"	2.52	17.18	12.39	4.41	2.20	6.57	4.72	4.92	8.46	8.03	(8) .91	1.18	PS180	26.3	LFKEWPP006S

⊙ Seat: E = EPDM; V = Viton®.

FKW VALVE FEATURES

- Wafer style butterfly valve.
- Polypropylene PP body, disc and stem.
- EPDM or Viton® seats.
- Mounting pad for direct mount actuator per ISO 5211.
- Pressure range: 150 PSI.

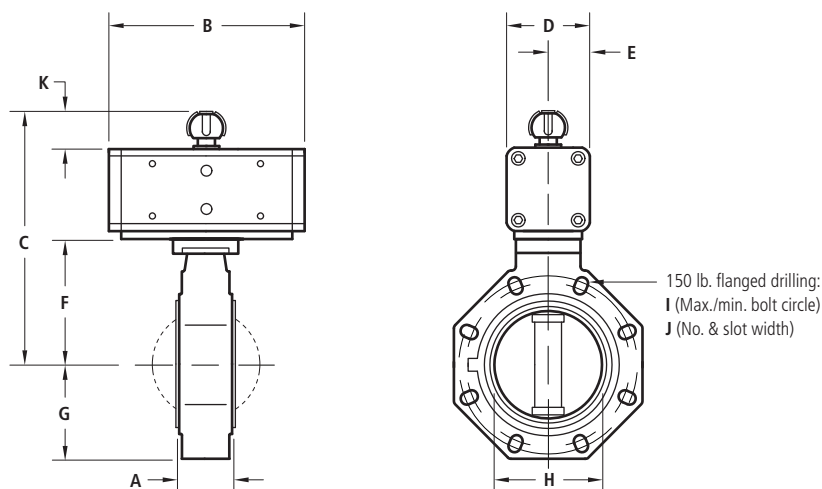
PNEUMATIC ACTUATOR FEATURES

- O Series spring return pneumatic actuator.
- Corrosion resistant coating.
- NAMUR solenoid mounting pad, ISO 5211 mounting standard.
- Visual position indicators.
- High duty cycle, permanent lubrication.
- Temperature range: -4°F to 175°F.

FKWODA Series

Wafer style butterfly valve with double acting pneumatic actuator

(Actuators are sized for 150 PSI liquid media line pressure, contact factory for higher line pressure ratings)



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	C	D	E	F	G	H	I (max.)	I (min.)	J	K	Actuator	Wt. (lbs.)	Model No.
80 psig Minimum Actuator Air Supply = 8D															
1-1/2"	1.30	5.67	7.54	2.36	1.18	4.17	2.36	1.57	4.29	3.90	(4) .75	.79	PD045	4.1	GFKWEPP008D
2"	1.69	5.67	7.78	2.36	1.18	4.41	2.76	1.97	4.94	4.53	(4) .75	.79	PD045	4.5	HFKEWPP008D
2-1/2"	1.81	5.67	8.06	2.36	1.18	4.69	3.15	2.56	5.67	5.04	(4) .75	.79	PD045	5.0	IFKEWPP008D
3"	1.93	6.65	9.08	2.83	1.41	5.24	3.66	3.15	6.30	5.71	(4) .75	.79	PD090	7.2	JFKEWPP008D
4"	2.20	6.65	9.63	2.83	1.41	5.79	4.21	3.94	7.48	6.50	(8) .75	.79	PD090	8.0	KFKEWPP008D
5"	2.52	8.35	11.53	3.54	1.77	6.57	4.72	4.92	8.46	8.03	(8) .91	1.18	PD180	13.1	LFKEWPP008D
6"	2.76	8.35	12.05	3.54	1.77	7.09	5.28	5.91	9.53	9.06	(8) .91	1.18	PD180	14.8	MFKEWPP008D
60 psig Minimum Actuator Air Supply = 6D															
1-1/2"	1.30	6.65	8.01	2.83	1.41	4.17	2.36	1.57	4.29	3.90	(4) .75	.79	PD090	5.4	GFKWEPP006D
2"	1.69	6.65	8.25	2.83	1.41	4.41	2.76	1.97	4.94	4.53	(4) .75	.79	PD090	5.8	HFKEWPP006D
2-1/2"	1.81	6.65	8.53	2.83	1.41	4.69	3.15	2.56	5.67	5.04	(4) .75	.79	PD090	6.3	IFKEWPP006D
3"	1.93	6.65	9.08	2.83	1.41	5.24	3.66	3.15	6.30	5.71	(4) .75	.79	PD090	7.2	JFKEWPP006D
4"	2.20	7.24	10.35	3.15	1.57	5.79	4.21	3.94	7.48	6.50	(8) .75	1.18	PD120	10.1	KFKEWPP006D
5"	2.52	8.35	11.53	3.54	6.57	6.57	4.72	4.92	8.46	8.03	(8) .91	1.18	PD180	13.1	LFKEWPP006D

⊙ Seat: E = EPDM; V = Viton®.

FKW VALVE FEATURES

- Wafer style butterfly valve.
- Polypropylene PP body, disc and stem.
- EPDM or Viton® seats.
- Mounting pad for direct mount actuator per ISO 5211.
- Pressure range: 150 PSI.

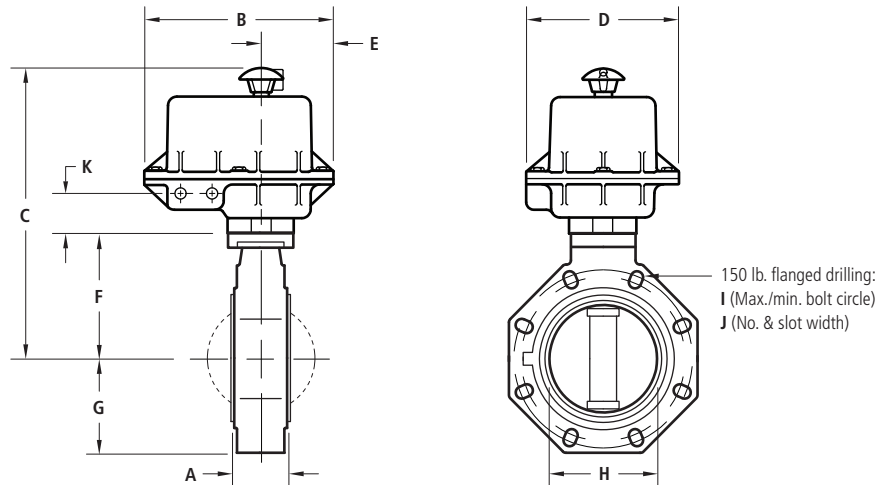
PNEUMATIC ACTUATOR FEATURES

- O Series double acting pneumatic actuator.
- Corrosion resistant coating.
- NAMUR solenoid mounting pad, ISO 5211 mounting standard.
- Visual position indicators.
- High duty cycle, permanent lubrication.
- Temperature range: -4°F to 175°F.

FKWB7 Series 1-1/2" to 6" Sizes

Wafer style butterfly valve with explosion proof electric actuator, NEMA 7, 120 VAC

(Actuators are sized for 150 PSI liquid media line pressure, contact factory for higher line pressure ratings)



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	C	D	E	F	G	H	I (max.)	I (min.)	J	K	Actuator	Wt. (lbs.)	Model No.
1-1/2"	1.30	9.75	13.61	7.75	3.75	4.17	2.36	1.57	4.29	3.90	(4) .75	2.44	BEEM500F	19.3	GFKWEPP⊙B7
2"	1.69	9.75	13.85	7.75	3.75	4.41	2.76	1.97	4.94	4.53	(4) .75	2.44	BEEM500F	19.7	HFKWEPP⊙B7
2-1/2"	1.81	9.75	14.13	7.75	3.75	4.69	3.15	2.56	5.67	5.04	(4) .75	2.44	BEEM500F	20.2	IFKWEPP⊙B7
3"	1.93	9.75	14.68	7.75	3.75	5.24	3.66	3.15	6.30	5.71	(4) .75	2.44	BEEM500F	21.1	JFKWEPP⊙B7
4"	2.20	9.75	15.23	7.75	3.75	5.79	4.21	3.94	7.48	6.50	(8) .75	2.44	BEEM500F	21.9	KFKWEPP⊙B7
5"	2.52	9.75	16.01	7.75	3.75	6.57	4.72	4.92	8.46	8.03	(8) .91	2.44	BEEM500F	23.6	LFKWEPP⊙B7
6"	2.76	9.75	16.53	7.75	3.75	7.09	5.28	5.91	9.53	9.06	(8) .91	2.44	BEEM500F	25.3	MFKWEPP⊙B7

⊙ Seat: **E** = EPDM; **V** = Viton®.

FKW VALVE FEATURES

- Wafer style butterfly valve.
- Polypropylene PP body, disc and stem.
- EPDM or Viton® seats.
- Mounting pad for direct mount actuator per ISO 5211.
- Pressure range: 150 PSI.

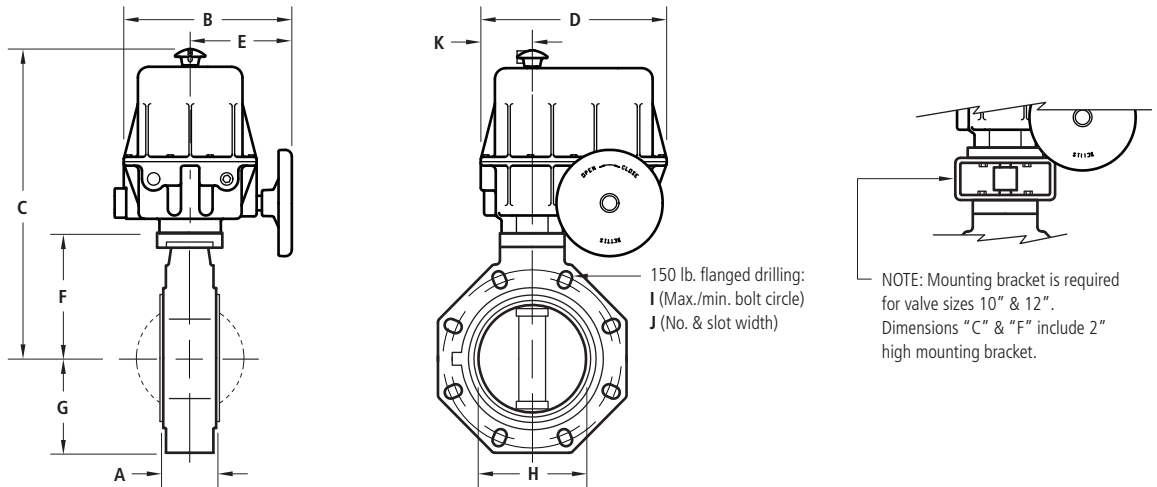
ELECTRIC ACTUATOR FEATURES

- B7 Series electric actuator.
- Actuator speed: 15 sec.
- NEMA 4, 4x, 7 and 9; CSA approved.
- Weatherproof.
- Class I Groups C and D, Div. 1.
- Class II Groups E, F and G.
- (2) 1/2" NPT conduit entries.
- Manual override.
- Visual position indicator.
- CSA certified.
- Temperature range: 0°F to 160°F.

FKWB7 Series 8" to 12" Sizes

Wafer style butterfly valve with explosion proof electric actuator, NEMA 7, 120 VAC

(Actuators are sized for 150 PSI liquid media line pressure, contact factory for higher line pressure ratings)



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	C	D	E	F	G	H	I (max.)	I (min.)	J	K	Actuator	Wt. (lbs.)	Model No.
8"	2.80	13.31	24.32	14.00	7.62	8.94	6.34	7.87	11.73	11.02	(8) .91	3.88	BEEM800F	173.2	NFKWEPP⊙B7
10"	4.49	13.31	27.14	14.00	7.62	9.76	8.27	9.84	14.25	13.19	(12) 1.00	3.88	BEEM800F	186.5	OFKWEPP⊙B7
12"	4.49	13.31	29.39	14.00	7.62	12.01	9.65	11.81	17.04	15.35	(12) 1.14	3.88	BEEM800F	201.9	PFKWEPP⊙B7

⊙ Seat: E = EPDM; V = Viton®.

FKW VALVE FEATURES

- Wafer style butterfly valve.
- Polypropylene PP body, disc and stem.
- EPDM or Viton® seats.
- Mounting pad for direct mount actuator per ISO 5211.
- Pressure range: 150 PSI: 8" to 10", 120 PSI: 12".

ELECTRIC ACTUATOR FEATURES

- B7 Series electric actuator.
- Actuator speed: 18 sec.
- NEMA 4, 7 and 9; CSA approved.
- Weatherproof.
- Class I Groups C and D, Div. 1.
- Class II Groups E, F and G.
- (2) 1/2" NPT conduit entries.
- Manual override.
- Visual position indicator.
- CSA certified.
- Temperature range: 0°F to 160°F.

STW Series

Resilient-Seated Wafer Style Butterfly Valve



The STW is a resilient-seated 125/150, ductile iron, wafer style butterfly valve available with either EPDM or BUNA-N seats and 316SS disc (other materials available upon request). It can be equipped with a manual handle or with pneumatic or electric actuators.

A full range of accessory items are available including limit switches, solenoid valves, positioners and manual override devices.

FEATURES

- Silicone free construction.
- Economy and high performance.
- One-piece body and self-centering disc.
- Seat facing acts as flange gasket.
- 3 shaft bushings support actuation.
- Shaft sealing against external leakage.
- Meets MSS SP-67 and API-609 specs.
- Complete line of accessories.

TYPICAL APPLICATIONS

- Water and waste effluent treatment plants.
- Paper, textiles and sugar industry.
- Construction industry, and drilling production.
- Heating, air conditioning, and cooling water circulation.
- Pneumatic conveyors, and vacuum applications.
- Compressed air, gas and desulphurization plants.
- Brewing, distilling, and chemical process industry.
- Transportation and dry bulk handling.
- Power industry.

ACTUATOR CONFIGURATIONS

- Electric.
- Pneumatic (spring return).
- Pneumatic (double acting).
- Manual handle.
- Manual handle with limit switch.

PRESSURE RANGE

29 inHg vacuum to 225 PSI

TEMPERATURE RANGE

-22°F to 230°F (EPDM)
-4°F to 194°F (BUNA-N)

MATERIALS OF CONSTRUCTION

Seat:

EPDM or BUNA-N.

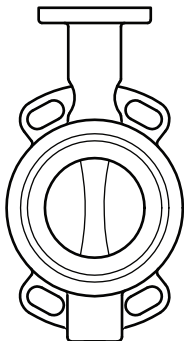
Disc:

316 stainless steel.

Body:

Epoxy coated ductile iron.

Wafer Style Valve ►
Installs between flanges.
Bolts span the body.



APPROVALS & CERTIFICATIONS

- ISO 9001 certified by LRQA, no. K981064.
- Canada registration no. CRN 0C0569.9C.
- CE/PED approved by Lloyds, no. RPS0160308/01.
- Products approved by South Africa SABS, no. 7222/145532/VH136.
- Designed to MSS SP-67, API 609.

PRESSURE TESTING

Body hydro: 24 bar (343 PSI)
Seat hydro: 17.6 bar (243 PSI)

STW Series

Resilient-seated butterfly valve
(Wafer style)

CV FACTORS

Size	CV at Specified Disc Opening							
	20°	30°	40°	50°	60°	70°	80°	90°
1-12"	3	5	11	18	26	45	70	80
2"	8	9	18	28	55	72	110	135
2-1/2"	10	15	27	44	85	110	168	210
3"	15	23	39	65	130	165	250	310
4"	27	41	71	115	230	300	465	540
5"	58	86	150	245	480	610	980	1110
6"	96	140	245	400	785	1010	1615	1910
8"	165	245	410	685	1275	1715	2670	3185
10"	255	380	650	1130	2100	2700	4250	4900
12"	370	540	950	1570	3050	3950	5950	7350
14"	450	750	1300	2210	4080	5610	8078	11200
16"	640	900	1720	2790	5000	7650	10770	12900
18"	730	1250	2295	3700	7050	9180	13900	17500
20"	910	1595	2850	4630	8600	11500	17540	22400
24"	1250	2290	4000	6090	12500	16500	23590	28300

PARTS

- 1. Retainer Screw:** SS41 steel/plated.
- 2. Retainer Plate:** SS41 steel/plated.
- 3. Packing and O-Ring:** EPDM.
- 4. Upper Shaft:** SUS410 stainless steel.
- 5. Body:** Ductile iron (GGG40).
- 6. Seat:** BUNA-N (NBR) or EPDM.
- 7. Disc:** 316SS (CF8M) stainless steel.
- 8. Lower Shaft:** SUS410 stainless steel.
- 9. Plug:** SS41 stainless steel.

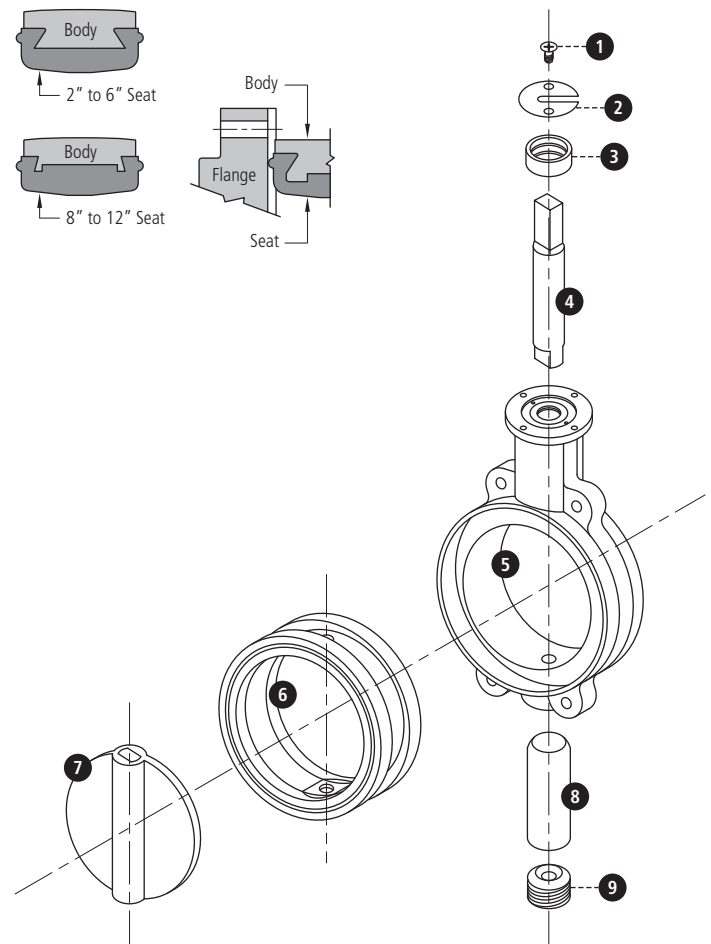
SEAT MATERIAL FEATURES

EPDM

- Ethylene propylene diene monomer rubber.
- Applications include water and steam, sea water, brine, esters, ketone, alkalis and caustic soda.
- Not recommended for hydrocarbons, oils or fats.

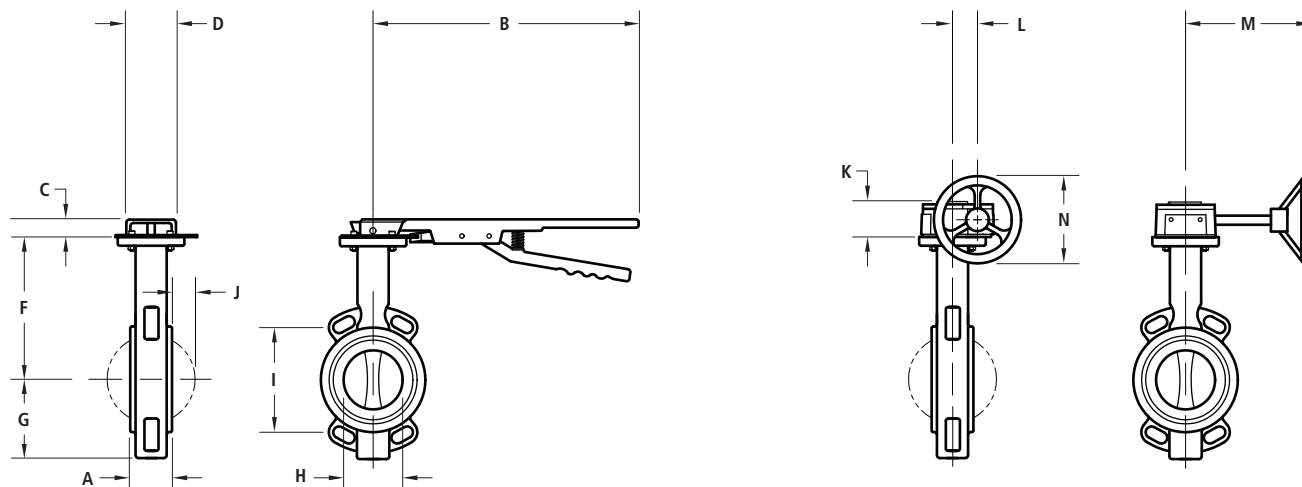
BUNA-N (NBR)

- Butadiene and acrylonitrile copolymer.
- Applications include hydrocarbons, natural gas, oils, fat, air and gasoline.
- Not recommended for solvents, benzene or xylol.



STWM / STWG Series

Wafer style butterfly valve with latch handle (STWM) or gear operator (STWG)
 (Manual operation)



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	C	D	E	F	G	H	I	J	Wt.* (lbs.)	Model No. (STWM)	
												EPDM	BUNA-N
2"	1.69	11.38	1.06	1.34	2.16	5.24	2.95	1.99	3.70	.18	13.3	HSTWESM	HSTWBSM
2-1/2"	1.81	11.38	1.06	1.34	2.16	5.55	3.15	2.61	4.29	.41	14.3	ISTWESM	ISTWBSM
3"	1.81	11.38	1.06	1.34	2.16	5.71	3.74	3.11	4.48	.67	15.3	JSTWESM	JSTWBSM
4"	2.05	11.38	1.06	1.34	2.16	6.56	4.33	3.92	5.79	.94	19.3	KSTWESM	KSTWBSM
5"	2.20	11.38	1.06	1.34	2.16	7.50	4.84	4.89	6.81	1.36	25.7	LSTWESM	LSTWBSM
6"	2.20	11.38	1.06	1.34	2.16	8.13	5.63	5.89	7.95	1.86	30.1	MSTWESM	MSTWBSM
8"	2.36	17.84	1.02	1.77	1.65	9.45	6.61	7.70	9.88	2.69	53.7	NSTWESM	NSTWBSM
10"	2.68	17.84	1.02	1.77	2.08	11.26	7.99	9.72	12.52	3.52	84.0	OSTWESM	OSTWBSM
12"	3.07	17.84	1.02	1.77	2.08	12.32	9.53	11.63	14.25	4.28	145.0	PSTWESM	PSTWBSM

* Weight is for valve only.

STW VALVE FEATURES

- Silicone free wafer style butterfly valve.
- Ductile iron body.
- 316 stainless steel disc and 410 stainless steel stem.
- EPDM and BUNA-N seats.
- Mounting pad for direct mount actuator per ISO 5211.
- Pressure range: 29 inHg vacuum to 225 PSI.

LEVER HANDLE FEATURES

- 10 position latch plate.

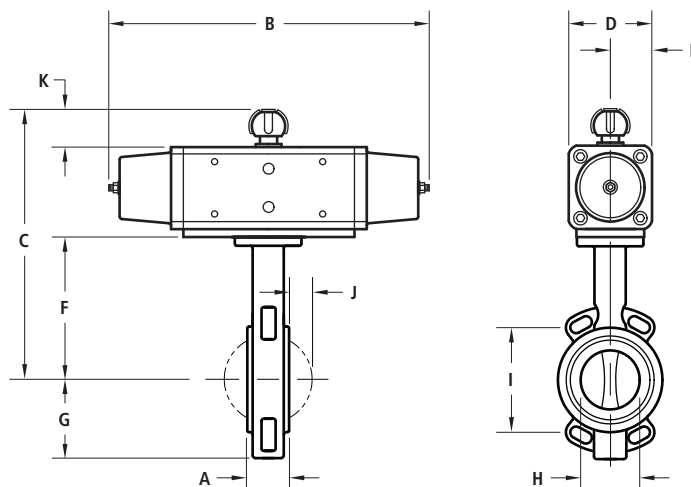
ADDITIONAL DIMENSIONS & SPECIFICATIONS

Size	K	L	M	N	Gear Operator	Model No. (STWG)	
						EPDM	BUNA-N
2"	2.84	1.77	6.62	5.79	24:1	HSTWESG	HSTWBSG
2-1/2"	2.84	1.77	6.62	5.79	24:1	ISTWESG	ISTWBSG
3"	2.84	1.77	6.62	5.79	24:1	JSTWESG	JSTWBSG
4"	2.84	1.77	6.62	5.79	24:1	KSTWESG	KSTWBSG
5"	2.84	1.77	6.62	5.79	24:1	LSTWESG	LSTWBSG
6"	2.84	1.77	6.62	5.79	24:1	MSTWESG	MSTWBSG
8"	3.31	2.60	7.53	11.82	30:1	NSTWESG	NSTWBSG
10"	3.31	2.60	7.53	11.82	30:1	OSTWESG	OSTWBSG
12"	3.31	2.60	10.54	11.82	30:1	PSTWESG	PSTWBSG

STWOSR Series

Wafer style butterfly valve with spring return pneumatic actuator

(Actuators are sized for 150 PSI liquid media line pressure, contact factory for higher line pressure ratings)



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	C	D	E	F	G	H	I	J	K	Actuator	Wt. (lbs.)	Model No.	
														EPDM	BUNA-N
80 psig Minimum Actuator Air Supply = 85															
2"	1.69	11.58	9.08	2.83	1.41	5.24	2.95	1.99	3.70	.18	.79	PS045	13.3	HSTWES08S	HSTWBS08S
2-1/2"	1.81	11.58	9.39	2.83	1.41	5.55	3.15	2.61	4.29	.41	.79	PS045	14.3	ISTWES08S	ISTWBS08S
3"	1.81	11.58	9.55	2.83	1.41	5.71	3.74	3.11	4.48	.67	.79	PS045	15.3	JSTWES08S	JSTWBS08S
4"	2.05	11.58	10.40	2.83	1.41	6.56	4.33	3.92	5.79	.94	.79	PS045	19.3	KSTWES08S	KSTWBS08S
5"	2.20	12.60	12.06	3.15	1.57	7.50	4.84	4.89	6.81	1.36	1.18	PS060	25.7	LSTWES08S	LSTWBS08S
6"	2.20	14.06	13.09	3.54	1.77	8.13	5.63	5.89	7.95	1.86	1.18	PS090	30.1	MSTWES08S	MSTWBS08S
8"	2.36	17.18	15.27	4.41	2.20	9.45	6.61	7.70	9.88	2.69	1.18	PS180	53.7	NSTWES08S	NSTWBS08S
10"	2.68	22.28	18.27	5.37	2.54	11.26	7.99	9.72	12.52	3.52	1.18	PS360	84.0	OSTWES08S	OSTWBS08S
12"	3.07	22.28	19.33	5.37	2.54	12.32	9.53	11.63	14.25	4.28	1.18	PS360	145.0	PSTWES08S	PSTWBS08S
60 psig Minimum Actuator Air Supply = 65															
2"	1.69	14.06	10.20	3.54	1.77	5.24	2.95	1.99	3.70	.18	1.18	PS090-60	18.1	HSTWES06S	HSTWBS06S
2-1/2"	1.81	14.06	10.51	3.54	1.77	5.55	3.15	2.61	4.29	.41	1.18	PS090-60	19.1	ISTWES06S	ISTWBS06S
3"	1.81	14.06	10.67	3.54	1.77	5.71	3.74	3.11	4.48	.67	1.18	PS090-60	20.1	JSTWES06S	JSTWBS06S
4"	2.05	14.06	11.52	3.54	1.77	6.56	4.33	3.92	5.79	.94	1.18	PS090-60	24.1	KSTWES06S	KSTWBS06S
5"	2.20	17.18	13.32	4.41	2.20	7.50	4.84	4.89	6.81	1.36	1.18	PS180-60	38.7	LSTWES06S	LSTWBS06S
6"	2.20	17.18	13.95	4.41	2.20	8.13	5.63	5.89	7.95	1.86	1.18	PS180-60	40.7	MSTWES06S	MSTWBS06S
8"	2.36	22.28	16.46	5.37	2.54	9.45	6.61	7.70	9.88	2.69	1.18	PS360-60	68.0	NSTWES06S	NSTWBS06S
10"	2.68	24.00	18.47	5.71	2.71	11.26	7.99	9.72	12.52	3.52	1.18	PS480-60	91.2	OSTWES06S	OSTWBS06S
12"	3.07	28.05	20.83	6.52	3.11	12.32	9.53	11.63	14.25	4.28	1.18	PS720-60	185.7	PSTWES06S	PSTWBS06S

STW VALVE FEATURES

- Silicone free wafer style butterfly valve.
- Ductile iron body.
- 316 stainless steel disc and 410 stainless steel stem.
- EPDM and BUNA-N seats.
- Mounting pad for direct mount actuator per ISO 5211.
- Pressure range: 29 inHg vacuum to 225 PSI.

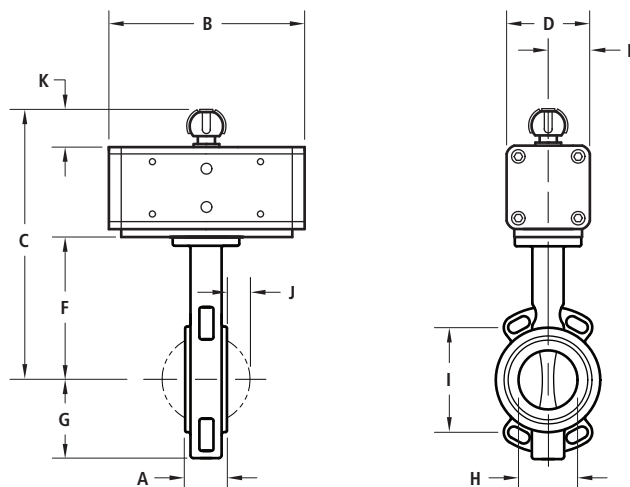
PNEUMATIC ACTUATOR FEATURES

- O Series spring return pneumatic actuator.
- Corrosion resistant coating.
- NAMUR solenoid mounting pad, ISO 5211 mounting standard.
- Visual position indicators.
- High duty cycle, permanent lubrication.
- Temperature range: -4°F to 175°F.

STWODA

Wafer style butterfly valve with double acting pneumatic actuator

(Actuators are sized for 150 PSI liquid media line pressure, contact factory for higher line pressure ratings)



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	C	D	E	F	G	H	I	J	K	Actuator	Wt. (lbs.)	Model No.	
														EPDM	BUNA-N
80 psig Minimum Actuator Air Supply = 8D															
2"	1.69	6.65	9.08	2.83	1.41	5.24	2.95	1.99	3.70	.18	.79	PD090	12.1	HSTWES08D	HSTWBS08D
2-1/2"	1.81	6.65	9.39	2.83	1.41	5.55	3.15	2.61	4.29	.41	.79	PD090	13.1	ISTWES08D	ISTWBS08D
3"	1.81	6.65	9.55	2.83	1.41	5.71	3.74	3.11	4.48	.67	.79	PD090	14.1	JSTWES08D	JSTWBS08D
4"	2.05	6.65	10.40	2.83	1.41	6.56	4.33	3.92	5.79	.94	.79	PD090	18.1	KSTWES08D	KSTWBS08D
5"	2.20	6.65	11.34	2.83	1.41	7.50	4.84	4.89	6.81	1.36	.79	PD090	22.1	LSTWES08D	LSTWBS08D
6"	2.20	8.35	13.09	3.54	1.77	8.13	5.63	5.89	7.95	1.86	1.18	PD0180	27.5	MSTWES08D	MSTWBS08D
8"	2.36	8.35	14.41	3.54	1.77	9.45	6.61	7.70	9.88	2.69	1.18	PD0180	40.5	NSTWES08D	NSTWBS08D
10"	2.68	10.40	17.08	4.41	2.20	11.26	7.99	9.72	12.52	3.52	1.18	PD0360	64.9	OSTWES08D	OSTWBS08D
12"	3.07	10.40	18.14	4.41	2.20	12.32	9.53	11.63	14.25	4.28	1.18	PD0360	125.9	PSTWES08D	PSTWBS08D
60 psig Minimum Actuator Air Supply = 6D															
2"	1.69	6.65	9.08	2.83	1.41	5.24	2.95	1.99	3.70	.18	.79	PD090	12.1	HSTWES06D	HSTWBS06D
2-1/2"	1.81	6.65	9.39	2.83	1.41	5.55	3.15	2.61	4.29	.41	.79	PD090	13.1	ISTWES06D	ISTWBS06D
3"	1.81	6.65	9.55	2.83	1.41	5.71	3.74	3.11	4.48	.67	.79	PD090	14.1	JSTWES06D	JSTWBS06D
4"	2.05	6.65	10.40	2.83	1.41	6.56	4.33	3.92	5.79	.94	.79	PD090	18.1	KSTWES06D	KSTWBS06D
5"	2.20	6.65	11.34	2.83	1.41	7.50	4.84	4.89	6.81	1.36	.79	PD090	22.1	LSTWES06D	LSTWBS06D
6"	2.20	8.35	13.09	3.54	1.77	8.13	5.63	5.89	7.95	1.86	1.18	PD0180	27.5	MSTWES06D	MSTWBS06D
8"	2.36	8.35	14.41	3.54	1.77	9.45	6.61	7.70	9.88	2.69	1.18	PD0180	40.5	NSTWES06D	NSTWBS06D
10"	2.68	11.62	17.56	4.81	2.27	11.26	7.99	9.72	12.52	3.52	1.18	PD0480	67.5	OSTWES06D	OSTWBS06D
12"	3.07	11.62	18.62	4.81	2.27	12.32	9.53	11.63	14.25	4.28	1.18	PD0480	128.5	PSTWES06D	PSTWBS06D

STW VALVE FEATURES

- Silicone free wafer style butterfly valve.
- Ductile iron body.
- 316 stainless steel disc and 410 stainless steel stem.
- EPDM and BUNA-N seats.
- Mounting pad for direct mount actuator per ISO 5211.
- Pressure range: 29 inHg vacuum to 225 PSI.

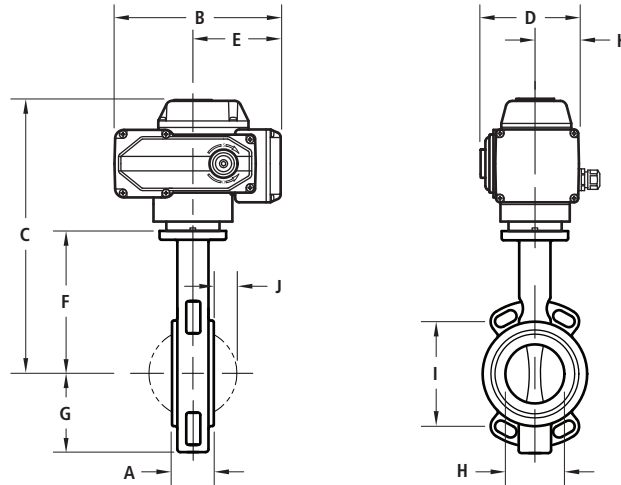
PNEUMATIC ACTUATOR FEATURES

- O Series double acting pneumatic actuator.
- Corrosion resistant coating.
- NAMUR solenoid mounting pad, ISO 5211 mounting standard.
- Visual position indicators.
- High duty cycle, permanent lubrication.
- Temperature range: -4°F to 175°F.

STWK4 Series

Wafer style butterfly valve with electric actuator

(Actuators are sized for 150 PSI liquid media line pressure, contact factory for higher line pressure ratings)



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	C	D	E	F	G	H	I	J	K	Actuator	Wt. (lbs.)	Model No.	
														EPDM	BUNA-N
2"	1.69	8.17	11.68	4.82	4.33	5.24	2.95	1.99	3.70	.18	2.14	UNIC10	18.0	HSTWESK4	HSTWBSK4
2-1/2"	1.81	8.17	11.99	4.82	4.33	5.55	3.15	2.61	4.29	.41	2.14	UNIC10	19.0	ISTWESK4	ISTWBSK4
3"	1.81	8.17	12.15	4.82	4.33	5.71	3.74	3.11	4.48	.67	2.14	UNIC10	20.0	JSTWESK4	JSTWBSK4
4"	2.05	8.17	13.00	4.82	4.33	6.56	4.33	3.92	5.79	.94	2.14	UNIC10	24.0	KSTWESK4	KSTWBSK4
5"	2.20	8.17	13.94	4.82	4.33	7.50	4.84	4.89	6.81	1.36	2.14	UNIC10	28.0	LSTWESK4	LSTWBSK4
6"	2.20	8.17	14.57	4.82	4.33	8.13	5.63	5.89	7.95	1.86	2.14	UNIC10	30.0	MSTWESK4	MSTWBSK4
8"	2.36	10.10	16.73	6.16	5.25	9.45	6.61	7.70	9.88	2.69	2.46	UNIC20	51.0	NSTWESK4	NSTWBSK4
10"	2.68	15.00	20.47	9.53	7.85	11.26	7.99	9.72	12.52	3.52	4.13	UNIC60	95.2	OSTWESK4	OSTWBSK4
12"	3.07	15.00	21.53	9.53	7.85	12.32	9.53	11.63	14.25	4.28	4.13	UNIC60	156.2	PSTWESK4	PSTWBSK4

STW VALVE FEATURES

- Silicone free wafer style butterfly valve.
- Ductile iron body.
- 316 stainless steel disc and 410 stainless steel stem.
- EPDM and BUNA-N seats.
- Mounting pad for direct mount actuator per ISO 5211.
- Pressure range: 29 inHg vacuum to 225 PSI.

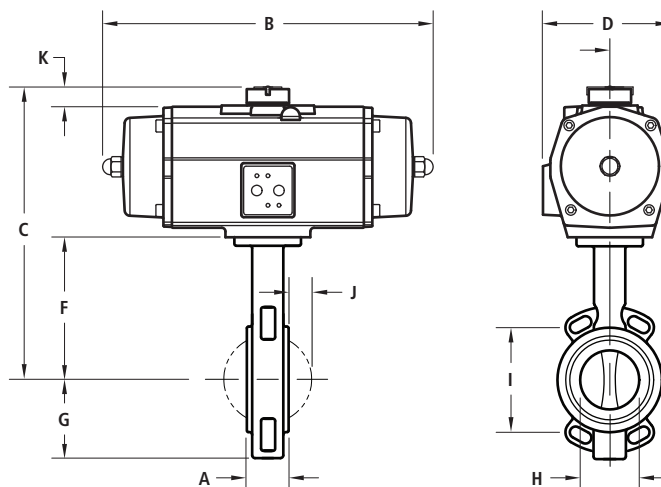
ELECTRIC ACTUATOR FEATURES

- K Series electric actuator.
- Actuator speed: 25 sec.
- Most voltages available.
- Quarter turn: 0-90° rotation.
- NEMA 4/4X certified by UL labs.
- ISO 5211 mounting standard.
- Visual position indicators.
- Self-locking drive train.
- Mounts in any direction.
- 1/2" NPT conduit connection.
- CSA-NRTL/C and CE certified.
- Temperature range: 0°F to 160°F.

STWESR Series

Wafer style butterfly valve with spring return pneumatic actuator

(Actuators are sized for 150 PSI liquid media line pressure, contact factory for higher line pressure ratings)



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	C	D	E	F	G	H	I	J	K	Actuator	Wt. (lbs.)	Model No.	
														EPDM	BUNA-N
80 psig Minimum Actuator Air Supply = 85															
2"	1.69	9.80	10.16	4.19	1.93	5.24	2.95	1.99	3.70	.18	.79	ES65-5	15.9	HSTWESE8S	HSTWBSE8S
2-1/2"	1.81	9.80	10.47	4.19	1.93	5.55	3.15	2.61	4.29	.41	.79	ES65-5	16.9	ISTWESE8S	ISTWBSE8S
3"	1.81	9.80	10.63	4.19	1.93	5.71	3.74	3.11	4.48	.67	.79	ES65-5	17.9	JSTWESE8S	JSTWBSE8S
4"	2.05	9.80	11.48	4.19	1.93	6.56	4.33	3.92	5.79	.94	.79	ES65-5	21.9	KSTWESE8S	KSTWBSE8S
5"	2.20	14.17	13.92	5.39	2.52	7.50	4.84	4.89	6.81	1.36	.79	ES200-5	38.1	LSTWESE8S	LSTWBSE8S
6"	2.20	14.17	14.55	5.39	2.52	8.13	5.63	5.89	7.95	1.86	.79	ES200-5	40.1	MSTWESE8S	MSTWBSE8S
8"	2.36	15.24	17.37	7.12	3.41	9.45	6.61	7.70	9.88	2.69	.79	ES350-5	70.3	NSTWESE8S	NSTWBSE8S
10"	2.68	18.78	21.10	8.52	4.08	11.26	7.99	9.72	12.52	3.52	1.18	ES600-5	109.8	OSTWESE8S	OSTWBSE8S
12"	3.07	20.35	23.70	9.51	4.54	12.32	9.53	11.63	14.25	4.28	1.18	ES950-5	195.1	PSTWESE8S	PSTWBSE8S
60 psig Minimum Actuator Air Supply = 65															
2"	1.69	10.51	10.68	4.60	2.12	5.24	2.95	1.99	3.70	.18	.79	ES100-4	18.1	HSTWESE6S	HSTWBSE6S
2-1/2"	1.81	10.51	10.99	4.60	2.12	5.55	3.15	2.61	4.29	.41	.79	ES100-4	19.1	ISTWESE6S	ISTWBSE6S
3"	1.81	10.51	11.15	4.60	2.12	5.71	3.74	3.11	4.48	.67	.79	ES100-4	20.1	JSTWESE6S	JSTWBSE6S
4"	2.05	10.51	12.00	4.60	2.12	6.56	4.33	3.92	5.79	.94	.79	ES100-4	24.1	KSTWESE6S	KSTWBSE6S
5"	2.20	14.17	13.92	5.39	2.52	7.50	4.84	4.89	6.81	1.36	.79	ES200-4	38.1	LSTWESE6S	LSTWBSE6S
6"	2.20	14.17	14.55	5.39	2.52	8.13	5.63	5.89	7.95	1.86	.79	ES200-4	40.1	MSTWESE6S	MSTWBSE6S
8"	2.36	15.24	17.37	7.12	3.41	9.45	6.61	7.70	9.88	2.69	.79	ES350-4	70.3	NSTWESE6S	NSTWBSE6S
10"	2.68	20.35	22.64	9.51	4.54	11.26	7.99	9.72	12.52	3.52	1.18	ES950-4	134.1	OSTWESE6S	OSTWBSE6S
12"	3.07	20.35	23.70	9.51	4.54	12.32	9.53	11.63	14.25	4.28	1.18	ES950-4	195.1	PSTWESE6S	PSTWBSE6S

STW VALVE FEATURES

- Silicone free wafer style butterfly valve.
- Ductile iron body.
- 316 stainless steel disc and 410 stainless steel stem.
- EPDM and BUNA-N seats.
- Mounting pad for direct mount actuator per ISO 5211.
- Pressure range: 29 inHg vacuum to 225 PSI.

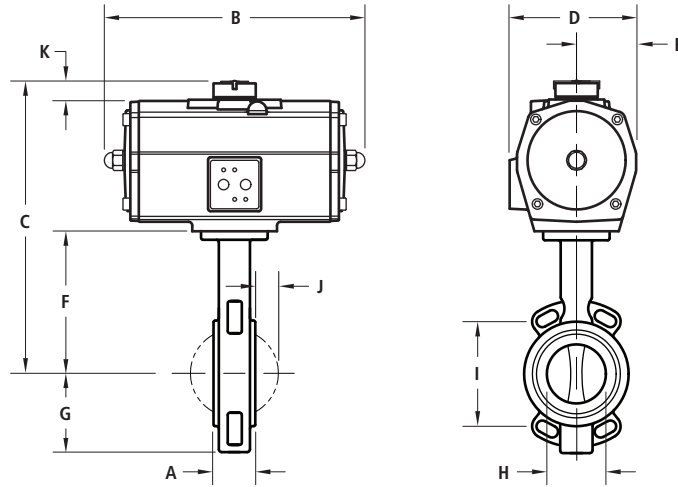
PNEUMATIC ACTUATOR FEATURES

- E Series spring return rack and pinion actuator.
- Corrosion resistant coating.
- NAMUR solenoid mounting pad, ISO 5211 mounting standard.
- Visual position indicators.
- High duty cycle, permanent lubrication.
- Temperature range: -4°F to 175°F.

STWEDA Series

Wafer style butterfly valve with double acting pneumatic actuator

(Actuators are sized for 150 PSI liquid media line pressure, contact factory for higher line pressure ratings)



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	C	D	E	F	G	H	I	J	K	Actuator	Wt. (lbs.)	Model No.	
														EPDM	BUNA-N
80 psig Minimum Actuator Air Supply = 8D															
2"	1.69	7.09	9.69	3.78	1.70	5.24	2.95	1.99	3.70	.18	.79	ED40	12.0	HSTWESE8D	HSTWBSE8D
2-1/2"	1.81	7.09	10.00	3.78	1.70	5.55	3.15	2.61	4.29	.41	.79	ED40	13.0	ISTWESE8D	ISTWBSE8D
3"	1.81	7.09	10.16	3.78	1.70	5.71	3.74	3.11	4.48	.67	.79	ED40	14.0	JSTWESE8D	JSTWBSE8D
4"	2.05	7.09	11.01	3.78	1.70	6.56	4.33	3.92	5.79	.94	.79	ED40	18.0	KSTWESE8D	KSTWBSE8D
5"	2.20	7.83	12.42	4.19	1.93	7.50	4.84	4.89	6.81	1.36	.79	ED65	23.3	LSTWESE8D	LSTWBSE8D
6"	2.20	8.70	13.57	4.60	2.12	8.13	5.63	5.89	7.95	1.86	.79	ED100	26.8	MSTWESE8D	MSTWBSE8D
8"	2.36	11.14	15.87	5.39	2.52	9.45	6.61	7.70	9.88	2.69	.79	ED200	45.8	NSTWESE8D	NSTWBSE8D
10"	2.68	12.01	19.18	7.12	3.41	11.26	7.99	9.72	12.52	3.52	.79	ED350	71.9	OSTWESE8D	OSTWBSE8D
12"	3.07	12.01	20.24	7.12	3.41	12.32	9.53	11.63	14.25	4.28	.79	ED350	132.9	PSTWESE8D	PSTWBSE8D
60 psig Minimum Actuator Air Supply = 6D															
2"	1.69	7.09	9.69	3.78	1.70	5.24	2.95	1.99	3.70	.18	.79	ED40	12.0	HSTWESE6D	HSTWBSE6D
2-1/2"	1.81	7.09	10.00	3.78	1.70	5.55	3.15	2.61	4.29	.41	.79	ED40	13.0	ISTWESE6D	ISTWBSE6D
3"	1.81	7.09	10.16	3.78	1.70	5.71	3.74	3.11	4.48	.67	.79	ED40	14.0	JSTWESE6D	JSTWBSE6D
4"	2.05	7.09	11.01	3.78	1.70	6.56	4.33	3.92	5.79	.94	.79	ED40	18.0	KSTWESE6D	KSTWBSE6D
5"	2.20	8.70	12.94	4.60	2.12	7.50	4.84	4.89	6.81	1.36	.79	ED100	24.8	LSTWESE6D	LSTWBSE6D
6"	2.20	11.14	14.55	5.39	2.52	8.13	5.63	5.89	7.95	1.86	.79	ED200	32.8	MSTWESE6D	MSTWBSE6D
8"	2.36	11.14	15.87	5.39	2.52	9.45	6.61	7.70	9.88	2.69	.79	ED200	45.8	NSTWESE6D	NSTWBSE6D
10"	2.68	12.01	19.18	7.12	3.41	11.26	7.99	9.72	12.52	3.52	.79	ED350	71.9	OSTWESE6D	OSTWBSE6D
12"	3.07	15.24	22.16	8.52	4.08	12.32	9.53	11.63	14.25	4.28	1.18	ED600	152.8	PSTWESE6D	PSTWBSE6D

STW VALVE FEATURES

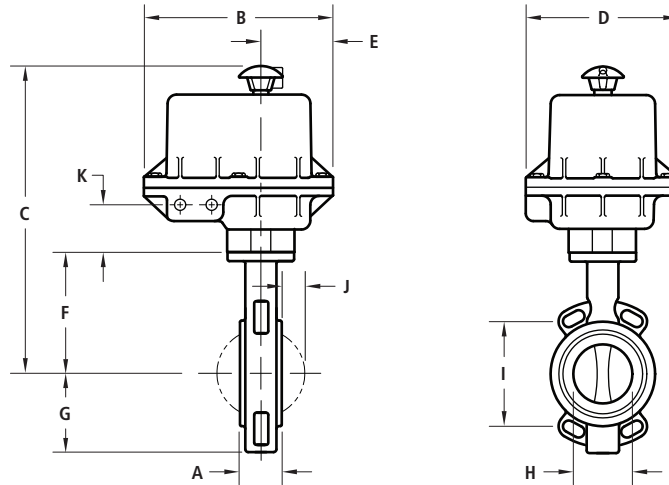
- Silicone free wafer style butterfly valve.
- Ductile iron body.
- 316 stainless steel disc and 410 stainless steel stem.
- EPDM and BUNA-N seats.
- Mounting pad for direct mount actuator per ISO 5211.
- Pressure range: 29 inHg vacuum to 225 PSI.

PNEUMATIC ACTUATOR FEATURES

- E Series double acting rack and pinion actuator.
- Corrosion resistant coating.
- NAMUR solenoid mounting pad, ISO 5211 mounting standard.
- Visual position indicators.
- High duty cycle, permanent lubrication.
- Temperature range: -4°F to 175°F.

STWB7 Series 2" to 6" Sizes

Wafer style butterfly valve with explosion proof electric actuator, NEMA 7, 120 VAC
 (Actuators are sized for 150 PSI liquid media line pressure, contact factory for higher line pressure ratings)



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	C	D	E	F	G	H	I	J	K	Actuator	Wt. (lbs.)	Model No.	
														EPDM	BUNA-N
2"	1.69	9.75	14.68	7.75	3.75	5.24	2.95	1.99	3.70	.18	2.44	BEEM500F	26.0	HSTWESB7	HSTWBSB7
2-1/2"	1.81	9.75	14.99	7.75	3.75	5.55	3.15	2.61	4.29	.41	2.44	BEEM500F	27.0	ISTWESB7	ISTWBSB7
3"	1.81	9.75	15.15	7.75	3.75	5.71	3.74	3.11	4.48	.67	2.44	BEEM500F	28.0	JSTWESB7	JSTWBSB7
4"	2.05	9.75	16.00	7.75	3.75	6.56	4.33	3.92	5.79	.94	2.44	BEEM500F	32.0	KSTWESB7	KSTWBSB7
5"	2.20	9.75	16.94	7.75	3.75	7.50	4.84	4.89	6.81	1.36	2.44	BEEM500F	36.0	LSTWESB7	LSTWBSB7
6"	2.20	9.75	17.57	7.75	3.75	8.13	5.63	5.89	7.95	1.86	2.44	BEEM500F	38.0	MSTWESB7	MSTWBSB7

STW VALVE FEATURES

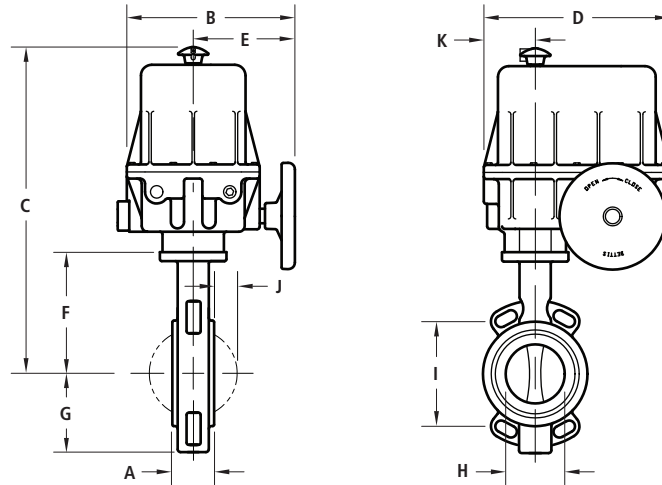
- Silicone free wafer style butterfly valve.
- Ductile iron body.
- 316 stainless steel disc and 410 stainless steel stem.
- EPDM and BUNA-N seats.
- Mounting pad for direct mount actuator per ISO 5211.
- Pressure range: 29 inHg vacuum to 225 PSI.

ELECTRIC ACTUATOR FEATURES

- B7 Series electric actuator.
- Actuator speed: 15 sec.
- NEMA 4, 4x, 7 and 9; CSA approved.
- Weatherproof.
- Class I Groups C and D, Div. 1.
- Class II Groups E, F and G.
- (2) 1/2" NPT conduit entries.
- Manual override.
- Position indicator.
- CSA certified.
- Temperature range: 0°F to 160°F.

STWB7 Series 8" to 12" Sizes

Wafer style butterfly valve with explosion proof electric actuator, NEMA 7, 120 VAC
 (Actuators are sized for 150 PSI liquid media line pressure, contact factory for higher line pressure ratings)



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	C	D	E	F	G	H	I	J	K	Actuator	Wt. (lbs.)	Model No.	
														EPDM	BUNA-N
8"	2.36	13.31	18.89	14.00	7.62	9.45	6.61	7.70	9.88	2.69	3.88	BEEM82018C	193	NSTWESB7	NSTWBSB7
10"	2.68	13.31	20.70	14.00	7.62	11.26	7.99	9.72	12.52	3.52	3.88	BEEM82018C	209	OSTWESB7	OSTWBSB7
12"	3.07	13.31	21.76	14.00	7.62	12.32	9.53	11.63	14.25	4.28	3.88	BEEM82018C	270	PSTWESB7	PSTWBSB7

STW VALVE FEATURES

- Silicone free wafer style butterfly valve.
- Ductile iron body.
- 316 stainless steel disc and 410 stainless steel stem.
- EPDM and BUNA-N seats.
- Mounting pad for direct mount actuator per ISO 5211.
- Pressure range: 29 inHg vacuum to 225 PSI.

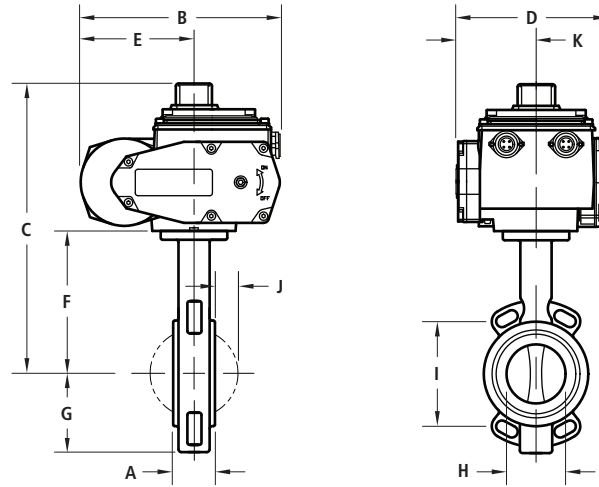
ELECTRIC ACTUATOR FEATURES

- B7 Series electric actuator.
- Actuator speed: 18 sec.
- NEMA 4, 7 and 9; CSA approved.
- Weatherproof.
- Class I Groups C and D, Div. 1.
- Class II Groups E, F and G.
- (2) 1/2" NPT conduit entries.
- Manual override.
- Position indicator.
- CSA certified.
- Temperature range: 0°F to 160°F.

STWI4 Series

Wafer style butterfly valve with electric actuator

(Actuators are sized for 150 PSI liquid media line pressure, contact factory for higher line pressure ratings)



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	C	D	E	F	G	H	I	J	K	Actuator	Wt. (lbs.)	Model No.	
														EPDM	BUNA-N
2"	1.69	7.56	10.64	5.36	3.58	5.24	2.95	1.99	3.70	.18	2.37	I4600	15.9	HSTWESI4	HSTWBSI4
2-1/2"	1.81	7.56	10.95	5.36	3.58	5.55	3.15	2.61	4.29	.41	2.37	I4600	16.9	ISTWESI4	ISTWBSI4
3"	1.81	7.56	11.11	5.36	3.58	5.71	3.74	3.11	4.48	.67	2.37	I4600	17.9	JSTWESI4	JSTWBSI4
4"	2.05	7.56	11.96	5.36	3.58	6.56	4.33	3.92	5.79	.94	2.37	I4600	21.9	KSTWESI4	KSTWBSI4
5"	2.20	7.56	12.90	5.36	3.58	7.50	4.84	4.89	6.81	1.36	2.37	I4600	25.9	LSTWESI4	LSTWBSI4
6"	2.20	8.73	14.30	6.30	4.75	8.13	5.63	5.89	7.95	1.86	3.31	I41150	36.5	MSTWESI4	MSTWBSI4
8"	2.36	8.73	15.62	6.30	4.75	9.45	6.61	7.70	9.88	2.69	3.31	I41150	49.5	NSTWESI4	NSTWBSI4
10"	2.68	8.73	17.43	6.30	4.75	11.26	7.99	9.72	12.52	3.52	3.31	I42100	65.5	OSTWESI4	OSTWBSI4
12"	3.07	8.73	18.49	6.30	4.75	12.32	9.53	11.63	14.25	4.28	3.31	I42100	126.5	PSTWESI4	PSTWBSI4

STW VALVE FEATURES

- Silicone free wafer style butterfly valve.
- Ductile iron body.
- 316 stainless steel disc and 410 stainless steel stem.
- EPDM and BUNA-N seats.
- Mounting pad for direct mount actuator per ISO 5211.
- Pressure range: 29 inHg vacuum to 225 PSI.

ELECTRIC ACTUATOR FEATURES

- I4 Series electric actuator.
- Weatherproof enclosure IP65.
- Voltages available: 115 VAC, 24 VAC/VDC.
- Duty cycle: 50%.
- IP65 electrical connectors.
- Space heater.
- Extra (2) SPDT adjustable limit switches.
- Temperature range: 0°F to 140°F.

STL Series

Resilient-Seated Lug Style Butterfly Valve



The STL is a resilient-seated 125/150, ductile iron, lug style butterfly valve available with either EPDM or BUNA-N seats and 316SS disc (other materials available upon request). It can be equipped with a manual handle or with pneumatic or electric actuators.

A full range of accessory items are available including limit switches, solenoid valves, positioners and manual override devices.

FEATURES

- Silicone free construction.
- Economy and high performance.
- One-piece body and self-centering disc.
- Seat facing acts as flange gasket.
- 3 shaft bushings support actuation.
- Shaft sealing against external leakage.
- Meets MSS SP-67 and API-609 specs.
- Complete line of accessories.

TYPICAL APPLICATIONS

- Water and waste effluent treatment plants.
- Paper, textiles and sugar industry.
- Construction industry, and drilling production.
- Heating, air conditioning, and cooling water circulation.
- Pneumatic conveyors, and vacuum applications.
- Compressed air, gas and desulphurization plants.
- Brewing, distilling, and chemical process industry.
- Transportation and dry bulk handling.
- Power industry.

ACTUATOR CONFIGURATIONS

- Electric.
- Pneumatic (spring return).
- Pneumatic (double acting).
- Manual handle.
- Manual handle with limit switch.

PRESSURE RANGE

29 inHg vacuum to 225 PSI:
2" to 12"
29 inHg vacuum to 160 PSI:
14" to 24"

TEMPERATURE RANGE

-22°F to 230°F (EPDM)
-4°F to 194°F (BUNA-N)

MATERIALS OF CONSTRUCTION

Seat:

EPDM or BUNA-N.

Disc:

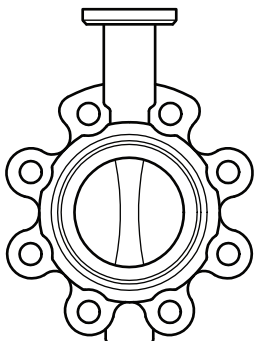
316 stainless steel.

Body:

Epoxy coated ductile iron.

Lug Style Valve ►

Installs between flanges. Bolts are threaded into tapped holes from each side of mounting flange.



APPROVALS & CERTIFICATIONS

- ISO 9001 certified by LRQA, no. K981064.
- Canada registration no. CRN 0C0569.9C.
- CE/PED approved by Lloyds, no. RPS0160308/01.
- Products approved by South Africa SABS, no. 7222/145532/VH136.
- Designed to MSS SP-67, API 609.

PRESSURE TESTING

Body hydro: 24 bar (343 PSI)
Seat hydro: 17.6 bar (243 PSI)

DEAD END SERVICE

Downstream flange is recommended.
150 PSI: 2" to 12"
100 PSI: 14" to 24"

STL Series

Resilient-seated butterfly valve (Lug style)

CV FACTORS

Size	CV at Specified Disc Opening							
	20°	30°	40°	50°	60°	70°	80°	90°
1-12"	3	5	11	18	26	45	70	80
2"	8	9	18	28	55	72	110	135
2-1/2"	10	15	27	44	85	110	168	210
3"	15	23	39	65	130	165	250	310
4"	27	41	71	115	230	300	465	540
5"	58	86	150	245	480	610	980	1110
6"	96	140	245	400	785	1010	1615	1910
8"	165	245	410	685	1275	1715	2670	3185
10"	255	380	650	1130	2100	2700	4250	4900
12"	370	540	950	1570	3050	3950	5950	7350
14"	450	750	1300	2210	4080	5610	8078	11200
16"	640	900	1720	2790	5000	7650	10770	12900
18"	730	1250	2295	3700	7050	9180	13900	17500
20"	910	1595	2850	4630	8600	11500	17540	22400
24"	1250	2290	4000	6090	12500	16500	23590	28300

PARTS

- 1. Retainer Screw:** SS41 steel/plated.
- 2. Retainer Plate:** SS41 steel/plated.
- 3. Packing and O-Ring:** EPDM.
- 4. Upper Shaft:** SUS410 stainless steel.
- 5. Body:** Ductile iron (GGG40).
- 6. Seat:** BUNA-N (NBR) or EPDM.
- 7. Disc:** 316SS (CF8M) stainless steel.
- 8. Lower Shaft:** SUS410 stainless steel.
- 9. Plug:** SS41 stainless steel.

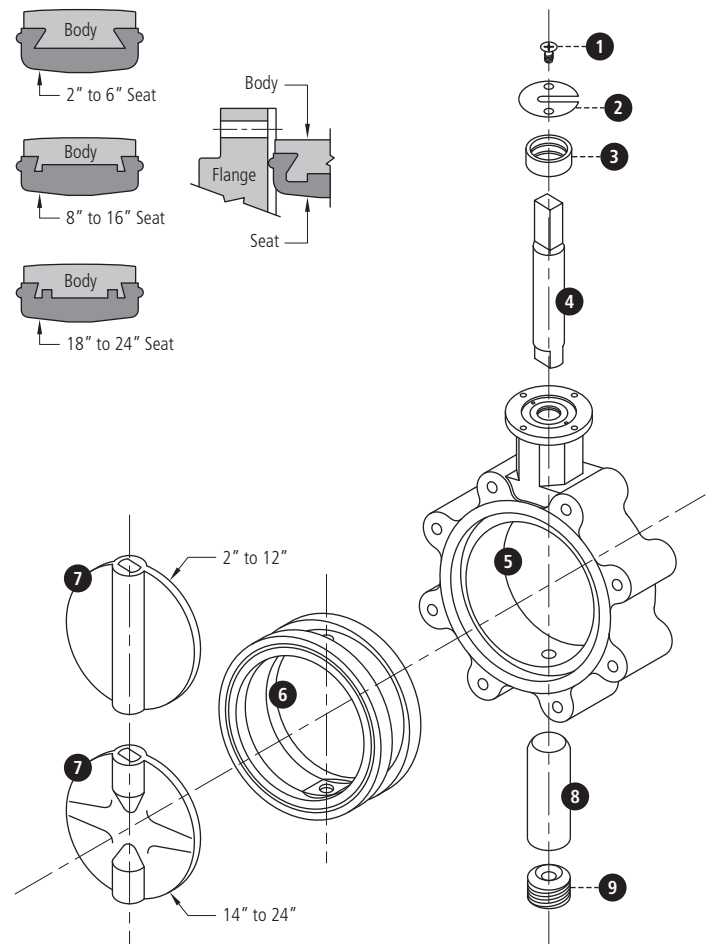
SEAT MATERIAL FEATURES

EPDM

- Ethylene propylene diene monomer rubber.
- Applications include water and steam, sea water, brine, esters, ketone, alkalis and caustic soda.
- Not recommended for hydrocarbons, oils or fats.

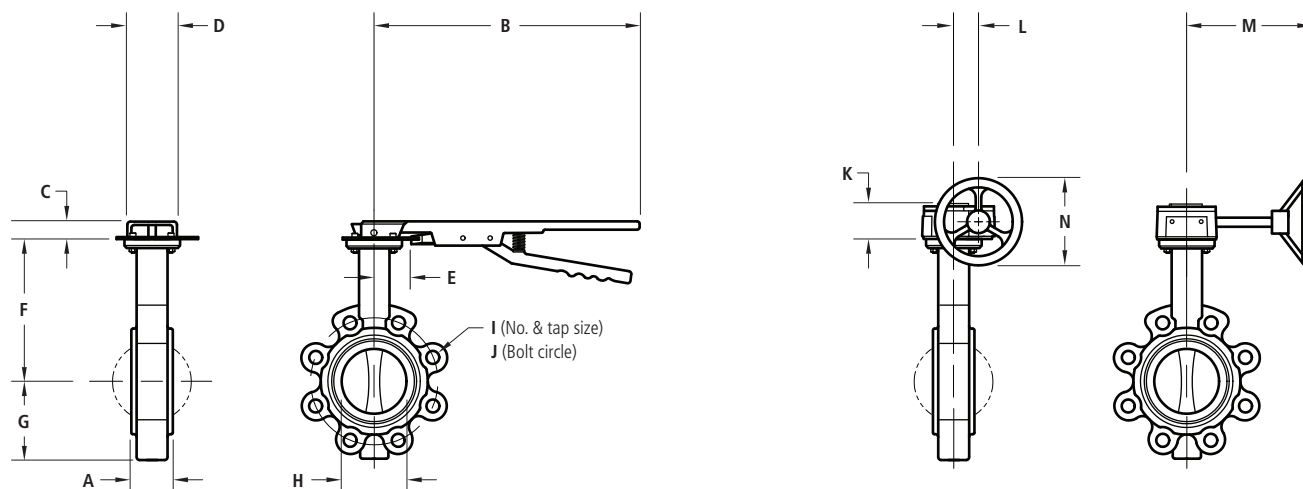
BUNA-N (NBR)

- Butadiene and acrylonitrile copolymer.
- Applications include hydrocarbons, natural gas, oils, fat, air and gasoline.
- Not recommended for solvents, benzene or xylol.



STLM / STLG Series 2" to 12" Sizes

Lug style butterfly valve with latch handle (STLM) or gear operator (STLG)
 (Manual operation)



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	C	D	E	F	G	H	I	J	Wt.* (lbs.)	Model No. (STLM)	
												EPDM	BUNA-N
2"	1.69	11.38	1.06	1.34	2.16	5.12	2.95	1.99	(4) 5/8"-11	4.75	14.0	HSTLES	HSTLBS
2-1/2"	1.81	11.38	1.06	1.34	2.16	5.39	3.15	2.61	(4) 5/8"-11	5.50	16.0	ISTLES	ISTLBS
3"	1.81	11.38	1.06	1.34	2.16	6.14	3.74	3.11	(4) 5/8"-11	6.00	18.0	JSTLES	JSTLBS
4"	2.05	11.38	1.06	1.34	2.16	6.69	4.33	3.92	(8) 5/8"-11	7.50	27.0	KSTLES	KSTLBS
5"	2.20	11.38	1.06	1.34	2.16	7.28	4.84	4.89	(8) 3/4"-10	8.50	32.3	LSTLES	LSTLBS
6"	2.20	11.38	1.06	1.34	2.16	7.99	5.63	5.89	(8) 3/4"-10	9.50	42.8	MSTLES	MSTLBS
8"	2.36	17.84	1.02	1.77	1.65	9.37	6.61	7.70	(8) 3/4"-10	11.75	59.8	NSTLES	NSTLBS
10"	2.68	17.84	1.02	1.77	2.08	10.63	7.99	9.72	(12) 7/8"-9	14.25	91.9	OSTLES	OSTLBS
12"	3.07	17.84	1.02	1.77	2.08	12.20	9.53	11.63	(12) 7/8"-9	17.00	165.9	PSTLES	PSTLBS

* Weight is for valve only.

STL VALVE FEATURES

- Silicone free lug style butterfly valve.
- Ductile iron body.
- 316 stainless steel disc and 410 stainless steel stem.
- EPDM and BUNA-N seats.
- Mounting pad for direct mount actuator per ISO 5211.
- Pressure range: 29 inHg vacuum to 225 PSI.

LEVER HANDLE FEATURES

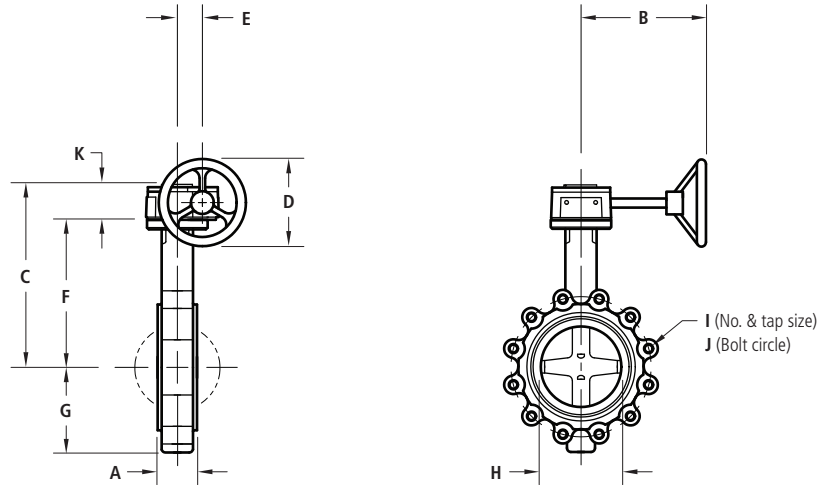
- 10 position latch plate.

ADDITIONAL DIMENSIONS & SPECIFICATIONS

Size	K	L	M	N	Gear Operator	Model No. (STLG)	
						EPDM	BUNA-N
2"	2.84	1.77	6.62	5.79	24:1	HSTLESG	HSTLB
2-1/2"	2.84	1.77	6.62	5.79	24:1	ISTLESG	ISTLB
3"	2.84	1.77	6.62	5.79	24:1	JSTLESG	JSTLB
4"	2.84	1.77	6.62	5.79	24:1	KSTLESG	KSTLB
5"	2.84	1.77	6.62	5.79	24:1	LSTLESG	LSTLB
6"	2.84	1.77	6.62	5.79	24:1	MSTLESG	MSTLB
8"	3.31	2.60	7.53	11.82	30:1	NSTLESG	NSTLB
10"	3.31	2.60	7.53	11.82	30:1	OSTLESG	OSTLB
12"	3.31	2.60	10.54	11.82	30:1	PSTLESG	PSTLB

STLG Series 14" to 24" Sizes

Lug style butterfly valve with gear operator
 (Manual operation)



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	C	D	E	F	G	H	I	J	K	Gear Operator	Wt.* (lbs.)	Model No.	
														EPDM	BUNA-N
14"	3.07	10.54	17.09	11.82	3.05	13.60	10.41	12.99	(12) 1"-8	18.75	3.49	50:1	143	QSTLESG	QSTLBSG
16"	4.02	10.54	17.25	11.82	3.05	13.76	11.75	14.92	(16) 1"-8	21.25	3.49	50:1	243	RSTLESG	RSTLBSG
18"	4.49	10.54	19.24	15.56	3.05	15.75	13.78	17.20	(16) 1.12"-7	22.75	3.49	50:1	310	SSTLESG	SSTLBSG
20"	5.00	12.21	21.65	15.56	5.32	17.32	14.96	19.29	(20) 1.12"-7	25.00	4.33	80:1	512	TSTLESG	TSTLBSG
24"	6.06	12.21	24.41	15.56	5.32	20.08	17.32	22.62	(20) 1.25"-7	29.50	4.33	80:1	686	USTLESG	USTLBSG

* Weight is for valve only.

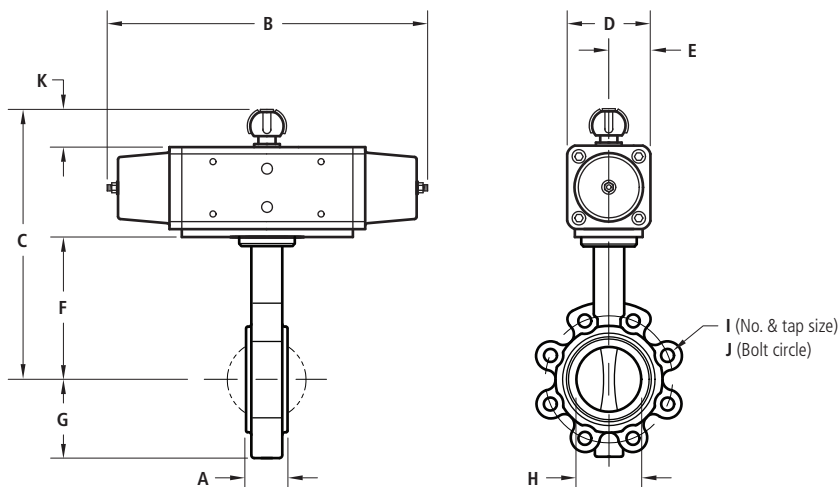
STL VALVE FEATURES

- Silicone free lug style butterfly valve.
- Ductile iron body.
- 316 stainless steel disc and 410 stainless steel stem.
- EPDM and BUNA-N seats.
- Mounting pad for direct mount actuator per ISO 5211.
- Pressure range: 29 inHg vacuum to 160 PSI.

STLOS Series

Lug style butterfly valve with spring return pneumatic actuator

(Actuators are sized for 150 PSI liquid media line pressure, contact factory for higher line pressure ratings)



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	C	D	E	F	G	H	I	J	K	Actuator	Wt. (lbs.)	Model No.	
														EPDM	BUNA-N
80 psig Minimum Actuator Air Supply = 85															
2"	1.69	11.58	8.96	2.83	1.41	5.12	2.95	1.99	(4) 5/8"-11	4.75	.79	PS045	15.3	HSTLES08S	HSTLBS08S
2-1/2"	1.81	11.58	9.23	2.83	1.41	5.39	3.15	2.61	(4) 5/8"-11	5.50	.79	PS045	17.3	ISTLES08S	ISTLBS08S
3"	1.81	11.58	9.98	2.83	1.41	6.14	3.74	3.11	(4) 5/8"-11	6.00	.79	PS045	19.3	JSTLES08S	JSTLBS08S
4"	2.05	11.58	10.53	2.83	1.41	6.69	4.33	3.92	(8) 5/8"-11	7.50	.79	PS045	28.3	KSTLES08S	KSTLBS08S
5"	2.20	12.60	11.84	3.15	1.57	7.28	4.84	4.89	(8) 3/4"-10	8.50	1.18	PS060	34.7	LSTLES08S	LSTLBS08S
6"	2.20	14.06	12.95	3.54	1.77	7.99	5.63	5.89	(8) 3/4"-10	9.50	1.18	PS090	46.1	MSTLES08S	MSTLBS08S
8"	2.36	17.18	15.19	4.41	2.20	9.37	6.61	7.70	(8) 3/4"-10	11.75	1.18	PS180	67.7	NSTLES08S	NSTLBS08S
10"	2.68	22.28	17.64	5.37	2.54	10.63	7.99	9.72	(12) 7/8"-9	14.25	1.18	PS360	104.0	OSTLES08S	OSTLBS08S
12"	3.07	22.28	19.21	5.37	2.54	12.20	9.53	11.63	(12) 7/8"-9	17.00	1.18	PS360	178.0	PSTLES08S	PSTLBS08S
60 psig Minimum Actuator Air Supply = 65															
2"	1.69	14.06	10.08	3.54	1.77	5.12	2.95	1.99	(4) 5/8"-11	4.75	1.18	PS090-60	20.1	HSTLES06S	HSTLBS06S
2-1/2"	1.81	14.06	10.35	3.54	1.77	5.39	3.15	2.61	(4) 5/8"-11	5.50	1.18	PS090-60	22.1	ISTLES06S	ISTLBS06S
3"	1.81	14.06	11.01	3.54	1.77	6.14	3.74	3.11	(4) 5/8"-11	6.00	1.18	PS090-60	24.1	JSTLES06S	JSTLBS06S
4"	2.05	14.06	11.65	3.54	1.77	6.69	4.33	3.92	(8) 5/8"-11	7.50	1.18	PS090-60	33.1	KSTLES06S	KSTLBS06S
5"	2.20	17.18	13.10	4.41	2.20	7.28	4.84	4.89	(8) 3/4"-10	8.50	1.18	PS180-60	47.7	LSTLES06S	LSTLBS06S
6"	2.20	17.18	13.81	4.41	2.20	7.99	5.63	5.89	(8) 3/4"-10	9.50	1.18	PS180-60	56.7	MSTLES06S	MSTLBS06S
8"	2.36	22.28	16.38	5.37	2.54	9.37	6.61	7.70	(8) 3/4"-10	11.75	1.18	PS360-60	82.0	NSTLES06S	NSTLBS06S
10"	2.68	24.00	17.84	5.71	2.71	10.63	7.99	9.72	(12) 7/8"-9	14.25	1.18	PS480-60	111.2	OSTLES06S	OSTLBS06S
12"	3.07	28.05	20.71	6.52	3.11	12.20	9.53	11.63	(12) 7/8"-9	17.00	1.18	PS720-60	218.7	PSTLES06S	PSTLBS06S

STL VALVE FEATURES

- Silicone free lug style butterfly valve.
- Ductile iron body.
- 316 stainless steel disc and 410 stainless steel stem.
- EPDM and BUNA-N seats.
- Mounting pad for direct mount actuator per ISO 5211.
- Pressure range: 29 inHg vacuum to 225 PSI.

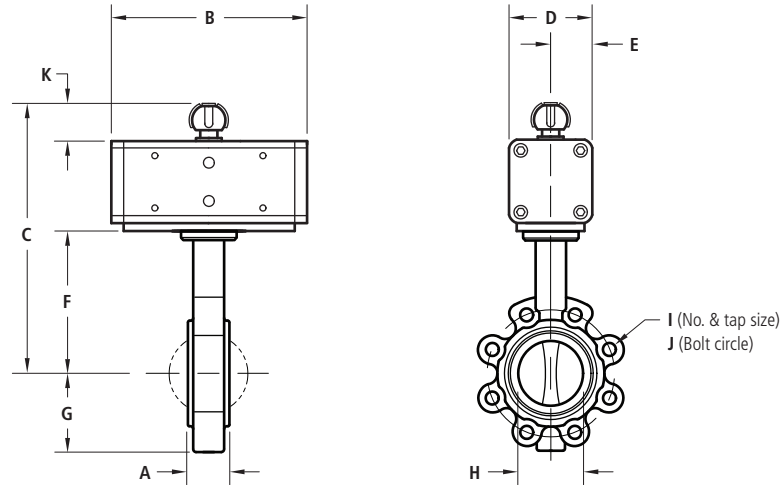
PNEUMATIC ACTUATOR FEATURES

- O Series spring return pneumatic actuator.
- Corrosion resistant coating.
- NAMUR solenoid mounting pad, ISO 5211 mounting standard.
- Visual position indicators.
- High duty cycle, permanent lubrication.
- Temperature range: -4°F to 175°F.

STLODA Series

Lug style butterfly valve with double acting pneumatic actuator

(Actuators are sized for 150 PSI liquid media line pressure, contact factory for higher line pressure ratings)



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	C	D	E	F	G	H	I	J	K	Actuator	Wt. (lbs.)	Model No.	
														EPDM	BUNA-N
80 psig Minimum Actuator Air Supply = 8D															
2"	1.69	7.09	8.96	2.83	1.41	5.12	2.95	1.99	(4) 5/8"-11	4.75	.79	PD090	14.1	HSTLES08D	HSTLBS08D
2-1/2"	1.81	7.09	9.23	2.83	1.41	5.39	3.15	2.61	(4) 5/8"-11	5.50	.79	PD090	16.1	ISTLES08D	ISTLBS08D
3"	1.81	7.09	9.98	2.83	1.41	6.14	3.74	3.11	(4) 5/8"-11	6.00	.79	PD090	18.1	JSTLES08D	JSTLBS08D
4"	2.05	7.09	10.53	2.83	1.41	6.69	4.33	3.92	(8) 5/8"-11	7.50	.79	PD090	27.1	KSTLES08D	KSTLBS08D
5"	2.20	7.83	11.12	2.83	1.41	7.28	4.84	4.89	(8) 3/4"-10	8.50	.79	PD090	31.1	LSTLES08D	LSTLBS08D
6"	2.20	8.70	12.95	3.54	1.77	7.99	5.63	5.89	(8) 3/4"-10	9.50	1.18	PD0180	43.5	MSTLES08D	MSTLBS08D
8"	2.36	11.14	14.33	3.54	1.77	9.37	6.61	7.70	(8) 3/4"-10	11.75	1.18	PD0180	54.5	NSTLES08D	NSTLBS08D
10"	2.68	12.01	16.45	4.41	2.20	10.63	7.99	9.72	(12) 7/8"-9	14.25	1.18	PD0360	84.9	OSTLES08D	OSTLBS08D
12"	3.07	12.01	18.02	4.41	2.20	12.20	9.53	11.63	(12) 7/8"-9	17.00	1.18	PD0360	158.9	PSTLES08D	PSTLBS08D
60 psig Minimum Actuator Air Supply = 6D															
2"	1.69	7.09	8.96	2.83	1.41	5.12	2.95	1.99	(4) 5/8"-11	4.75	.79	PD090	14.1	HSTLES06D	HSTLBS06D
2-1/2"	1.81	7.09	9.23	2.83	1.41	5.39	3.15	2.61	(4) 5/8"-11	5.50	.79	PD090	16.1	ISTLES06D	ISTLBS06D
3"	1.81	7.09	9.98	2.83	1.41	6.14	3.74	3.11	(4) 5/8"-11	6.00	.79	PD090	18.1	JSTLES06D	JSTLBS06D
4"	2.05	7.09	10.53	2.83	1.41	6.69	4.33	3.92	(8) 5/8"-11	7.50	.79	PD090	27.1	KSTLES06D	KSTLBS06D
5"	2.20	8.70	11.12	2.83	1.41	7.28	4.84	4.89	(8) 3/4"-10	8.50	.79	PD090	31.1	LSTLES06D	LSTLBS06D
6"	2.20	11.14	12.95	3.54	1.77	7.99	5.63	5.89	(8) 3/4"-10	9.50	1.18	PD0180	43.5	MSTLES06D	MSTLBS06D
8"	2.36	11.14	14.33	3.54	1.77	9.37	6.61	7.70	(8) 3/4"-10	11.75	1.18	PD0180	54.5	NSTLES06D	NSTLBS06D
10"	2.68	12.01	16.93	4.81	2.27	10.63	7.99	9.72	(12) 7/8"-9	14.25	1.18	PD0480	57.5	OSTLES06D	OSTLBS06D
12"	3.07	15.24	18.50	4.81	2.27	12.20	9.53	11.63	(12) 7/8"-9	17.00	1.18	PD0480	161.5	PSTLES06D	PSTLBS06D

STL VALVE FEATURES

- Silicone free lug style butterfly valve.
- Ductile iron body.
- 316 stainless steel disc and 410 stainless steel stem.
- EPDM and BUNA-N seats.
- Mounting pad for direct mount actuator per ISO 5211.
- Pressure range: 29 inHg vacuum to 225 PSI.

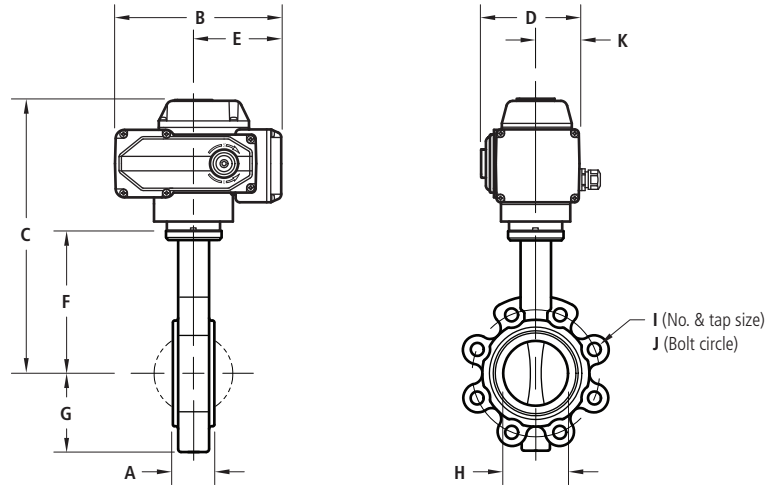
PNEUMATIC ACTUATOR FEATURES

- O Series double acting pneumatic actuator.
- Corrosion resistant coating.
- NAMUR solenoid mounting pad, ISO 5211 mounting standard.
- Visual position indicators.
- High duty cycle, permanent lubrication.
- Temperature range: -4°F to 175°F.

STLK4 Series 2" to 12" Sizes

Lug style butterfly valve with electric actuator

(Actuators are sized for 150 PSI liquid media line pressure, contact factory for higher line pressure ratings)



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	C	D	E	F	G	H	I	J	K	Actuator	Wt. (lbs.)	Model No.	
														EPDM	BUNA-N
2"	1.69	8.17	11.56	4.82	4.33	5.12	2.95	1.99	(4) 5/8"-11	4.75	2.14	UNIC10	20.0	HSTLESK4	HSTLBSK4
2-1/2"	1.81	8.17	11.83	4.82	4.33	5.39	3.15	2.61	(4) 5/8"-11	5.50	2.14	UNIC10	22.0	ISTLESK4	ISTLBSK4
3"	1.81	8.17	12.58	4.82	4.33	6.14	3.74	3.11	(4) 5/8"-11	6.00	2.14	UNIC10	24.0	JSTLESK4	JSTLBSK4
4"	2.05	8.17	13.13	4.82	4.33	6.69	4.33	3.92	(8) 5/8"-11	7.50	2.14	UNIC10	33.0	KSTLESK4	KSTLBSK4
5"	2.20	8.17	13.72	4.82	4.33	7.28	4.84	4.89	(8) 3/4"-10	8.50	2.14	UNIC10	37.0	LSTLESK4	LSTLBSK4
6"	2.20	8.17	14.43	4.82	4.33	7.99	5.63	5.89	(8) 3/4"-10	9.50	2.14	UNIC10	46.0	MSTLESK4	MSTLBSK4
8"	2.36	10.10	16.67	6.16	5.25	9.37	6.61	7.70	(8) 3/4"-10	11.75	2.46	UNIC20	65.0	NSTLESK4	NSTLBSK4
10"	2.68	15.00	19.84	9.53	7.85	10.63	7.99	9.72	(12) 7/8"-9	14.25	4.13	UNIC60	115.2	OSTLESK4	OSTLBSK4
12"	3.07	15.00	21.41	9.53	7.85	12.20	9.53	11.63	(12) 7/8"-9	17.00	4.13	UNIC60	189.2	PSTLESK4	PSTLBSK4

STL VALVE FEATURES

- Silicone free lug style butterfly valve.
- Ductile iron body.
- 316 stainless steel disc and 410 stainless steel stem.
- EPDM and BUNA-N seats.
- Mounting pad for direct mount actuator per ISO 5211.
- Pressure range: 29 inHg vacuum to 225 PSI.

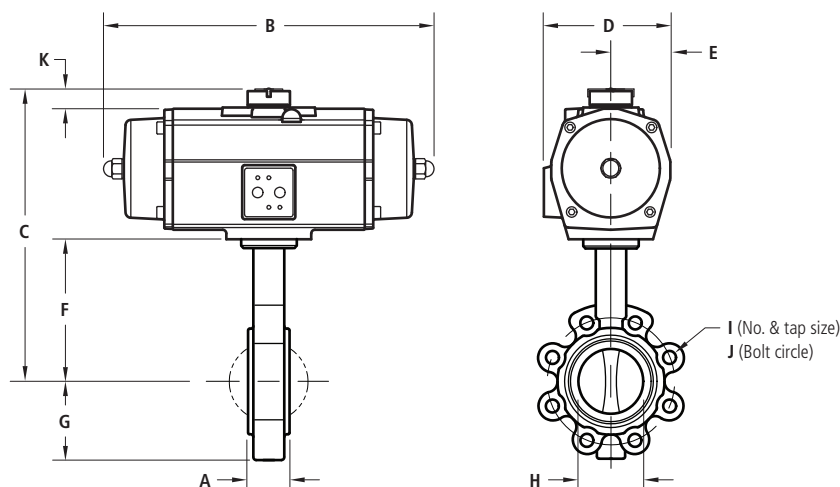
ELECTRIC ACTUATOR FEATURES

- K Series electric actuator.
- Actuator speed: 25 sec.
- Most voltages available.
- Quarter turn: 0-90° rotation.
- NEMA 4/4X certified by UL labs.
- ISO 5211 mounting standard.
- Visual position indicators.
- Self-locking drive train.
- Mounts in any direction.
- 1/2" NPT conduit connection.
- CSA-NRTL/C and CE certified.
- Temperature range: 0°F to 160°F.

STLESR Series 2" to 12" Sizes

Lug style butterfly valve with spring return pneumatic actuator

(Actuators are sized for 150 PSI liquid media line pressure, contact factory for higher line pressure ratings)



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	C	D	E	F	G	H	I	J	K	Actuator	Wt. (lbs.)	Model No.	
														EPDM	BUNA-N
80 psig Minimum Actuator Air Supply = 85															
2"	1.69	9.80	10.04	4.19	1.93	5.12	2.95	1.99	(4) 5/8"-11	4.75	.79	ES65-5	17.9	HSTLESE8S	HSTLBSE8S
2-1/2"	1.81	9.80	10.31	4.19	1.93	5.39	3.15	2.61	(4) 5/8"-11	5.50	.79	ES65-5	19.9	ISTLESE8S	ISTLBSE8S
3"	1.81	9.80	11.06	4.19	1.93	6.14	3.74	3.11	(4) 5/8"-11	6.00	.79	ES65-5	21.9	JSTLESE8S	JSTLBSE8S
4"	2.05	9.80	11.51	4.19	1.93	6.69	4.33	3.92	(8) 5/8"-11	7.50	.79	ES65-5	30.9	KSTLESE8S	KSTLBSE8S
5"	2.20	14.17	13.70	5.39	2.52	7.28	4.84	4.89	(8) 3/4"-10	8.50	.79	ES200-5	47.1	LSTLESE8S	LSTLBSE8S
6"	2.20	14.17	14.41	5.39	2.52	7.99	5.63	5.89	(8) 3/4"-10	9.50	.79	ES200-5	56.1	MSTLESE8S	MSTLBSE8S
8"	2.36	15.24	17.29	7.12	3.41	9.37	6.61	7.70	(8) 3/4"-10	11.75	.79	ES350-5	84.3	NSTLESE8S	NSTLBSE8S
10"	2.68	18.78	20.47	8.52	4.08	10.63	7.99	9.72	(12) 7/8"-9	14.25	1.18	ES600-5	129.8	OSTLESE8S	OSTLBSE8S
12"	3.07	20.35	23.58	9.51	4.54	12.20	9.53	11.63	(12) 7/8"-9	17.00	1.18	ES950-5	228.1	PSTLESE8S	PSTLBSE8S
60 psig Minimum Actuator Air Supply = 65															
2"	1.69	10.51	10.56	4.60	2.12	5.12	2.95	1.99	(4) 5/8"-11	4.75	.79	ES100-4	20.1	HSTLESE6S	HSTLBSE6S
2-1/2"	1.81	10.51	10.83	4.60	2.12	5.39	3.15	2.61	(4) 5/8"-11	5.50	.79	ES100-4	22.1	ISTLESE6S	ISTLBSE6S
3"	1.81	10.51	11.58	4.60	2.12	6.14	3.74	3.11	(4) 5/8"-11	6.00	.79	ES100-4	24.1	JSTLESE6S	JSTLBSE6S
4"	2.05	10.51	12.13	4.60	2.12	6.69	4.33	3.92	(8) 5/8"-11	7.50	.79	ES100-4	33.1	KSTLESE6S	KSTLBSE6S
5"	2.20	14.17	13.70	5.39	2.52	7.28	4.84	4.89	(8) 3/4"-10	8.50	.79	ES200-4	47.1	LSTLESE6S	LSTLBSE6S
6"	2.20	14.17	14.41	5.39	2.52	7.99	5.63	5.89	(8) 3/4"-10	9.50	.79	ES200-4	56.1	MSTLESE6S	MSTLBSE6S
8"	2.36	15.24	17.29	7.12	3.41	9.37	6.61	7.70	(8) 3/4"-10	11.75	.79	ES350-4	84.3	NSTLESE6S	NSTLBSE6S
10"	2.68	20.35	22.01	9.51	4.54	10.63	7.99	9.72	(12) 7/8"-9	14.25	1.18	ES950-4	154.1	OSTLESE6S	OSTLBSE6S
12"	3.07	20.35	23.58	9.51	4.54	12.20	9.53	11.63	(12) 7/8"-9	17.00	1.18	ES950-4	228.1	PSTLESE6S	PSTLBSE6S

STL VALVE FEATURES

- Silicone free lug style butterfly valve.
- Ductile iron body.
- 316 stainless steel disc and 410 stainless steel stem.
- EPDM and BUNA-N seats.
- Mounting pad for direct mount actuator per ISO 5211.
- Pressure range: 29 inHg vacuum to 225 PSI.

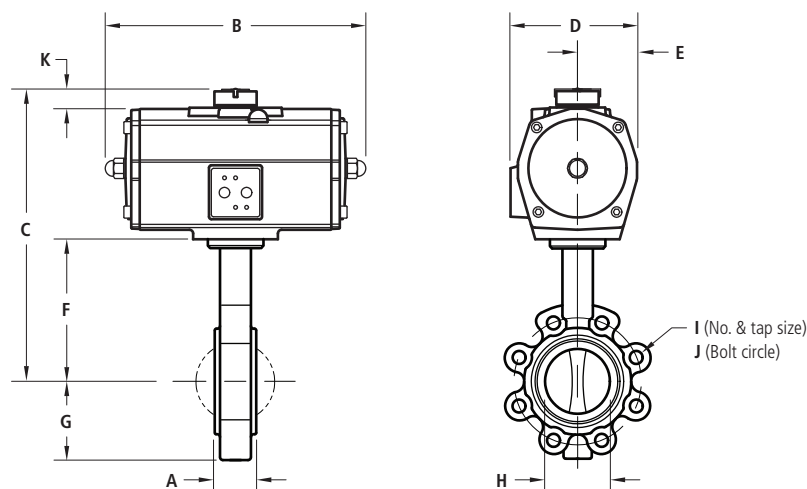
PNEUMATIC ACTUATOR FEATURES

- E Series spring return rack and pinion actuator.
- Corrosion resistant coating.
- NAMUR solenoid mounting pad, ISO 5211 mounting standard.
- Visual position indicators.
- High duty cycle, permanent lubrication.
- Temperature range: -4°F to 175°F.

STLEDA Series 2" to 12" Sizes

Lug style butterfly valve with double acting pneumatic actuator

(Actuators are sized for 150 PSI liquid media line pressure, contact factory for higher line pressure ratings)



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	C	D	E	F	G	H	I	J	K	Actuator	Wt. (lbs.)	Model No.	
														EPDM	BUNA-N
80 psig Minimum Actuator Air Supply = 8D															
2"	1.69	7.09	9.57	3.78	1.70	5.24	2.95	1.99	(4) 5/8"-11	4.75	.79	ED40	14.0	HSTLESE8D	HSTLBE8D
2-1/2"	1.81	7.09	9.84	3.78	1.70	5.55	3.15	2.61	(4) 5/8"-11	5.50	.79	ED40	16.0	ISTLESE8D	ISTLBE8D
3"	1.81	7.09	10.59	3.78	1.70	5.71	3.74	3.11	(4) 5/8"-11	6.00	.79	ED40	18.0	JSTLESE8D	JSTLBE8D
4"	2.05	7.09	11.14	3.78	1.70	6.56	4.33	3.92	(8) 5/8"-11	7.50	.79	ED40	27.0	KSTLESE8D	KSTLBE8D
5"	2.20	7.83	12.20	4.19	1.93	7.50	4.84	4.89	(8) 3/4"-10	8.50	.79	ED65	32.3	LSTLESE8D	LSTLBE8D
6"	2.20	8.70	13.43	4.60	2.12	8.13	5.63	5.89	(8) 3/4"-10	9.50	.79	ED100	42.8	MSTLESE8D	MSTLBE8D
8"	2.36	11.14	15.79	5.39	2.52	9.45	6.61	7.70	(8) 3/4"-10	11.75	.79	ED200	59.8	NSTLESE8D	NSTLBE8D
10"	2.68	12.01	18.55	7.12	3.41	11.26	7.99	9.72	(12) 7/8"-9	14.25	.79	ED350	91.9	OSTLESE8D	OSTLBE8D
12"	3.07	12.01	20.12	7.12	3.41	12.32	9.53	11.63	(12) 7/8"-9	17.00	.79	ED350	165.9	PSTLESE8D	PSTLBE8D
60 psig Minimum Actuator Air Supply = 6D															
2"	1.69	7.09	9.57	3.78	1.70	5.24	2.95	1.99	(4) 5/8"-11	4.75	.79	ED40	14.0	HSTLESE6D	HSTLBE6D
2-1/2"	1.81	7.09	9.84	3.78	1.70	5.55	3.15	2.61	(4) 5/8"-11	5.50	.79	ED40	16.0	ISTLESE6D	ISTLBE6D
3"	1.81	7.09	10.59	3.78	1.70	5.71	3.74	3.11	(4) 5/8"-11	6.00	.79	ED40	18.0	JSTLESE6D	JSTLBE6D
4"	2.05	7.09	11.14	3.78	1.70	6.56	4.33	3.92	(8) 5/8"-11	7.50	.79	ED40	27.0	KSTLESE6D	KSTLBE6D
5"	2.20	8.70	12.27	4.60	2.12	7.50	4.84	4.89	(8) 3/4"-10	8.50	.79	ED100	33.8	LSTLESE6D	LSTLBE6D
6"	2.20	11.14	14.41	5.39	2.52	8.13	5.63	5.89	(8) 3/4"-10	9.50	.79	ED200	48.8	MSTLESE6D	MSTLBE6D
8"	2.36	11.14	15.79	5.39	2.52	9.45	6.61	7.70	(8) 3/4"-10	11.75	.79	ED200	59.8	NSTLESE6D	NSTLBE6D
10"	2.68	12.01	18.55	7.12	3.41	11.26	7.99	9.72	(12) 7/8"-9	14.25	.79	ED350	91.9	OSTLESE6D	OSTLBE6D
12"	3.07	15.24	22.04	8.52	4.08	12.32	9.53	11.63	(12) 7/8"-9	17.00	1.18	ED600	185.8	PSTLESE6D	PSTLBE6D

STL VALVE FEATURES

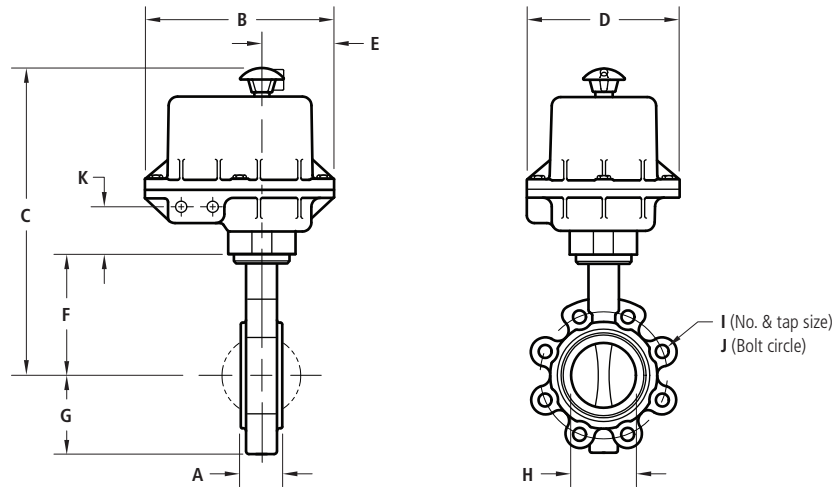
- Silicone free lug style butterfly valve.
- Ductile iron body.
- 316 stainless steel disc and 410 stainless steel stem.
- EPDM and BUNA-N seats.
- Mounting pad for direct mount actuator per ISO 5211.
- Pressure range: 29 inHg vacuum to 225 PSI.

PNEUMATIC ACTUATOR FEATURES

- E Series double acting rack and pinion actuator.
- Corrosion resistant coating.
- NAMUR solenoid mounting pad, ISO 5211 mounting standard.
- Visual position indicators.
- High duty cycle, permanent lubrication.
- Temperature range: -4°F to 175°F.

STLB7 Series 2" to 6" Sizes

Lug style butterfly valve with explosion proof electric actuator, NEMA 7, 120 VAC
 (Actuators are sized for 150 PSI liquid media line pressure, contact factory for higher line pressure ratings)



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	C	D	E	F	G	H	I	J	K	Actuator	Wt. (lbs.)	Model No.	
														EPDM	BUNA-N
2"	1.69	9.75	14.56	7.75	3.75	5.12	2.95	1.99	(4) 5/8"-11	4.75	2.44	BEEM500F	28.0	HSTLESB7	HSTLBSB7
2-1/2"	1.81	9.75	14.83	7.75	3.75	5.39	3.15	2.61	(4) 5/8"-11	5.50	2.44	BEEM500F	30.0	ISTLESB7	ISTLBSB7
3"	1.81	9.75	15.58	7.75	3.75	6.14	3.74	3.11	(4) 5/8"-11	6.00	2.44	BEEM500F	32.0	JSTLESB7	JSTLBSB7
4"	2.05	9.75	16.13	7.75	3.75	6.69	4.33	3.92	(8) 5/8"-11	7.50	2.44	BEEM500F	41.0	KSTLESB7	KSTLBSB7
5"	2.20	9.75	16.72	7.75	3.75	7.28	4.84	4.89	(8) 3/4"-10	8.50	2.44	BEEM500F	45.0	LSTLESB7	LSTLBSB7
6"	2.20	9.75	17.43	7.75	3.75	7.99	5.63	5.89	(8) 3/4"-10	9.50	2.44	BEEM500F	54.0	MSTLESB7	MSTLBSB7

STL VALVE FEATURES

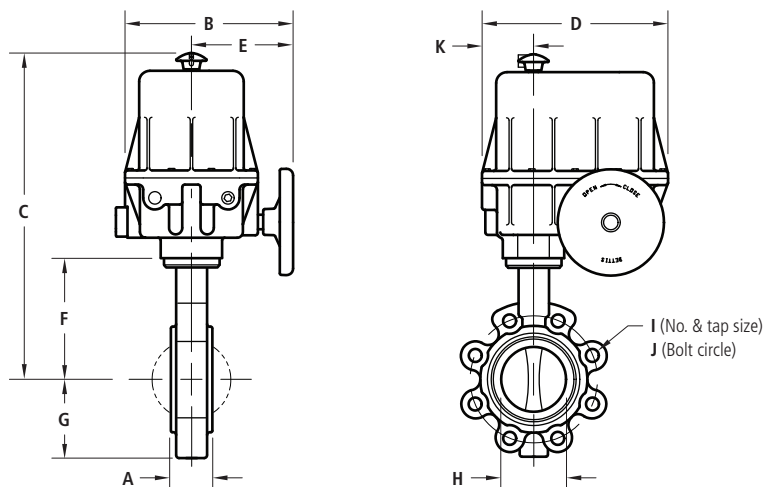
- Silicone free lug style butterfly valve.
- Ductile iron body.
- 316 stainless steel disc and 410 stainless steel stem.
- EPDM and BUNA-N seats.
- Mounting pad for direct mount actuator per ISO 5211.
- Pressure range: 29 inHg vacuum to 225 PSI.

ELECTRIC ACTUATOR FEATURES

- B7 Series electric actuator.
- Actuator speed: 15 sec.
- NEMA 4, 4x, 7 and 9; CSA approved.
- Weatherproof.
- Class I Groups C and D, Div. 1.
- Class II Groups E, F and G.
- (2) 1/2" NPT conduit entries.
- Manual override.
- Position indicator.
- CSA certified.
- Temperature range: 0°F to 160°F.

STLB7 Series 8" to 12" Sizes

Lug style butterfly valve with explosion proof electric actuator, NEMA 7, 120 VAC
 (Actuators are sized for 150 PSI liquid media line pressure, contact factory for higher line pressure ratings)



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	C	D	E	F	G	H	I	J	K	Actuator	Wt. (lbs.)	Model No.	
														EPDM	BUNA-N
8"	2.36	13.31	18.81	14.00	7.62	9.37	6.61	7.70	(8) 3/4"-10	11.75	3.88	BEEM82018C	207	NSTLESB7	NSTLBSB7
10"	2.68	13.31	20.07	14.00	7.62	10.63	7.99	9.72	(12) 7/8"-9	14.50	3.88	BEEM82018C	229	OSTLESB7	OSTLBSB7
12"	3.07	13.31	21.64	14.00	7.62	12.20	9.53	11.63	(12) 7/8"-9	17.00	3.88	BEEM82018C	303	PSTLESB7	PSTLBSB7

STL VALVE FEATURES

- Silicone free lug style butterfly valve.
- Ductile iron body.
- 316 stainless steel disc and 410 stainless steel stem.
- EPDM and BUNA-N seats.
- Mounting pad for direct mount actuator per ISO 5211.
- Pressure range: 29 inHg vacuum to 225 PSI.

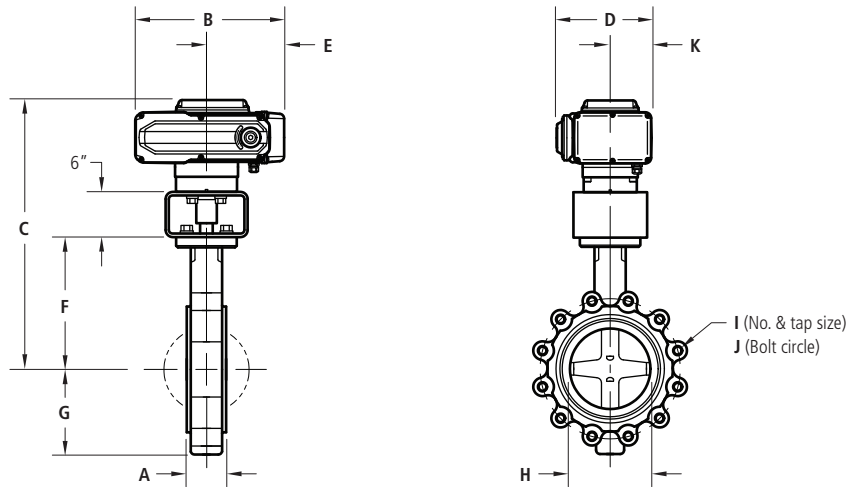
ELECTRIC ACTUATOR FEATURES

- B7 Series electric actuator.
- Actuator speed: 18 sec.
- NEMA 4, 7 and 9; CSA approved.
- Weatherproof.
- Class I Groups C and D, Div. 1.
- Class II Groups E, F and G.
- (2) 1/2" NPT conduit entries.
- Manual override.
- Position indicator.
- CSA certified.
- Temperature range: 0°F to 160°F.

STLK4 Series 14" to 24" Sizes

Lug style butterfly valve with electric actuator

(Actuators are sized for 50 PSI liquid media line pressure, contact factory for higher line pressure ratings)



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	C	D	E	F	G	H	I	J	K	Actuator	Wt. (lbs.)	Model No.	
														EPDM	BUNA-N
14"	3.07	15.00	28.81	9.53	4.08	13.60	10.41	12.99	(12) 1"-8	18.75	4.13	UNIC100	216	QSTLESK4	QSTLBSK4
16"	4.02	15.00	28.97	9.53	4.54	13.76	11.75	14.92	(16) 1"-8	21.25	4.13	UNIC100	316	RSTLESK4	RSTLBSK4
18"	4.49	15.00	30.96	9.53	4.54	15.75	13.78	17.20	(16) 1.12"-7	22.75	4.13	UNIC100	383	SSTLESK4	SSTLBSK4
20"	5.00	15.00	32.53	9.53	5.21	17.32	14.96	19.29	(20) 1.12"-7	25.00	4.13	UNIC100	585	TSTLESK4	TSTLBSK4
24"	Consult Factory														

STL VALVE FEATURES

- Silicone free lug style butterfly valve.
- Ductile iron body.
- 316 stainless steel disc and 410 stainless steel stem.
- EPDM and BUNA-N seats.
- Mounting pad for direct mount actuator per ISO 5211.
- Pressure range: 29 inHg vacuum to 160 PSI.

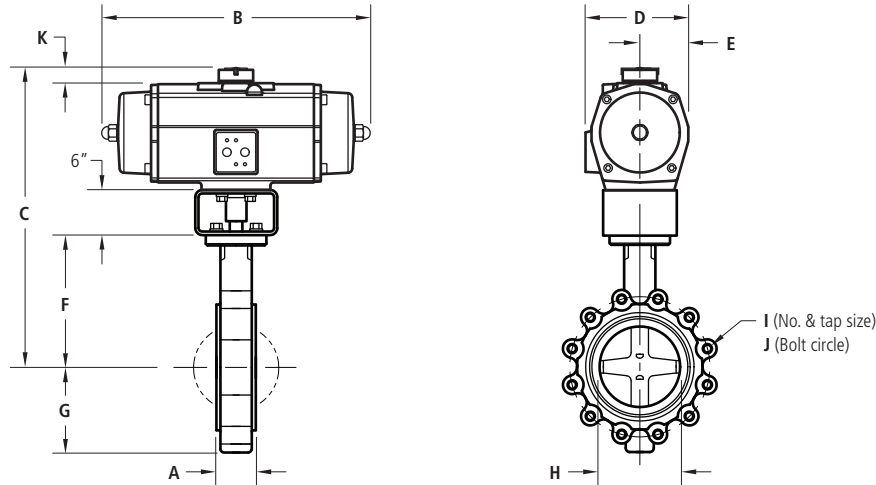
ELECTRIC ACTUATOR FEATURES

- K Series electric actuator.
- Actuator speed: 25 sec.
- Most voltages available.
- Quarter turn: 0-90° rotation.
- NEMA 4/4X certified by UL labs.
- ISO 5211 mounting standard.
- Visual position indicators.
- Self-locking drive train.
- Mounts in any direction.
- 1/2" NPT conduit connection.
- CSA-NRTL/C and CE certified.
- Temperature range: 0°F to 160°F.

STLESR Series 14" to 24" Sizes

Lug style butterfly valve with spring return pneumatic actuator

(Actuators are sized for 50 PSI liquid media line pressure, contact factory for higher line pressure ratings)



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	C	D	E	F	G	H	I	J	K	Actuator	Wt. (lbs.)	Model No.	
														EPDM	BUNA-N
80 psig Minimum Actuator Air Supply = 85															
14"	3.07	18.75	29.44	8.52	4.08	13.60	10.41	12.99	(12) 1"-8	18.75	1.18	ES600-4	229	QSTLESE8S	QSTLBSE8S
16"	4.02	20.35	31.14	9.51	4.54	13.76	11.75	14.92	(16) 1"-8	21.25	1.18	ES950-4	353	RSTLESE8S	RSTLBSE8S
18"	4.49	20.35	33.13	9.51	4.54	15.75	13.78	17.20	(16) 1.12"-7	22.75	1.18	ES950-4	420	SSTLESE8S	SSTLBSE8S
20"	5.00	15.24	36.19	10.81	5.21	17.32	14.96	19.29	(20) 1.12"-7	25.00	1.18	ES1600-4	682	TSTLESE8S	TSTLBSE8S
24"	6.06	22.44	41.28	14.17	6.89	20.08	17.32	22.62	(20) 1.25"-7	29.50	1.18	PS2505-14	905	USTLESE8S	USTLBSE8S
60 psig Minimum Actuator Air Supply = 65															
14"	3.07	20.35	30.98	9.51	4.54	13.60	10.41	12.99	(12) 1"-8	18.75	1.18	ES950-3	253	QSTLESE6S	QSTLBSE6S
16"	4.02	20.35	31.14	9.51	4.54	13.76	11.75	14.92	(16) 1"-8	21.25	1.18	ES950-3	353	RSTLESE6S	RSTLBSE6S
18"	4.49	25.08	34.62	10.81	5.21	15.75	13.78	17.20	(16) 1.12"-7	22.75	1.18	ES1600-3	480	SSTLESE6S	SSTLBSE6S
20"	5.00	25.08	36.19	10.81	5.21	17.32	14.96	19.29	(20) 1.12"-7	25.00	1.18	ES1600-3	682	TSTLESE6S	TSTLBSE6S
24"	6.06	32.83	42.22	15.35	7.48	20.08	17.32	22.62	(20) 1.25"-7	29.50	1.18	PS4005-8	1002	USTLESE6S	USTLBSE6S

STL VALVE FEATURES

- Silicone free lug style butterfly valve.
- Ductile iron body.
- 316 stainless steel disc and 410 stainless steel stem.
- EPDM and BUNA-N seats.
- Mounting pad for direct mount actuator per ISO 5211.
- Pressure range: 29 inHg vacuum to 160 PSI.

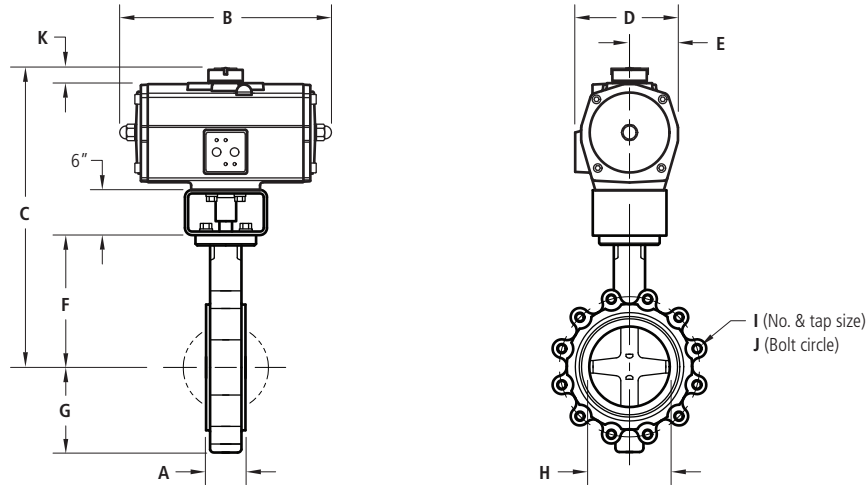
PNEUMATIC ACTUATOR FEATURES

- E Series spring return rack and pinion actuator.
- Corrosion resistant coating.
- NAMUR solenoid mounting pad, ISO 5211 mounting standard.
- Visual position indicators.
- High duty cycle.
- Permanent lubrication.
- Temperature range: -4°F to 175°F.

STLEDA Series 14" to 24" Sizes

Lug style butterfly valve with double acting pneumatic actuator

(Actuators are sized for 50 PSI liquid media line pressure, contact factory for higher line pressure ratings)



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	C	D	E	F	G	H	I	J	K	Actuator	Wt. (lbs.)	Model No.	
														EPDM	BUNA-N
80 psig Minimum Actuator Air Supply = 8D															
14"	3.07	12.01	27.52	7.12	6.41	13.60	10.41	12.99	(12) 1"-8	18.75	.79	ED350	191	QSTLESE8D	QSTLBSE8D
16"	4.02	15.24	29.60	8.52	4.08	13.76	11.75	14.92	(16) 1"-8	21.25	1.18	ED600	311	RSTLESE8D	RSTLBSE8D
18"	4.49	15.24	31.59	8.52	4.08	15.75	13.78	17.20	(16) 1.12"-7	22.75	1.18	ED600	378	SSTLESE8D	SSTLBSE8D
20"	5.00	15.24	33.16	8.52	4.08	17.32	14.96	19.29	(20) 1.12"-7	25.00	1.18	ED600	580	TSTLESE8D	TSTLBSE8D
24"	6.06	20.31	38.95	10.81	5.21	20.08	17.32	22.62	(20) 1.25"-7	29.50	1.18	ED1600	805	USTLESE8D	USTLBSE8D
60 psig Minimum Actuator Air Supply = 6D															
14"	3.07	12.01	27.52	7.12	6.41	13.60	10.41	12.99	(12) 1"-8	18.75	.79	ED350	191	QSTLESE6D	QSTLBSE6D
16"	4.02	15.24	29.60	8.52	4.08	13.76	11.75	14.92	(16) 1"-8	21.25	1.18	ED600	311	RSTLESE6D	RSTLBSE6D
18"	4.49	15.24	31.59	8.52	4.08	15.75	13.78	17.20	(16) 1.12"-7	22.75	1.18	ED600	378	SSTLESE6D	SSTLBSE6D
20"	5.00	16.69	34.70	9.51	4.54	17.32	14.96	19.29	(20) 1.12"-7	25.00	1.18	ED950	595	TSTLESE6D	TSTLBSE6D
24"	6.06	20.31	38.95	10.81	5.21	20.08	17.32	22.62	(20) 1.25"-7	29.50	1.18	ED1600	805	USTLESE6D	USTLBSE6D

STL VALVE FEATURES

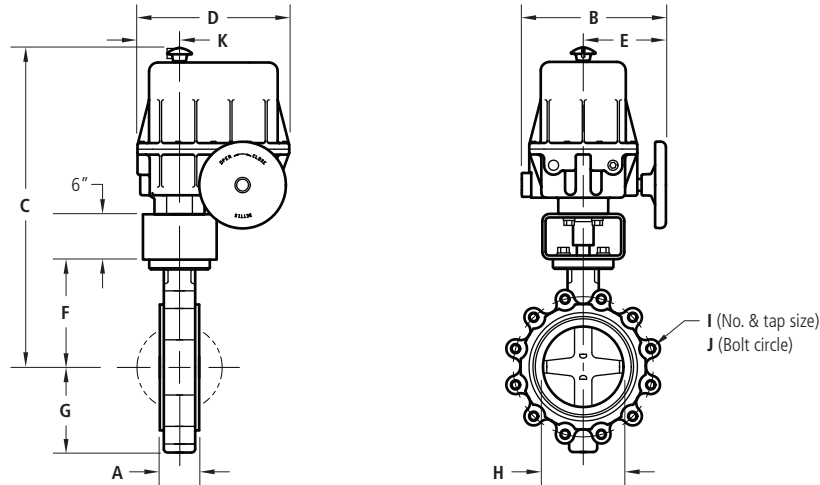
- Silicone free lug style butterfly valve.
- Ductile iron body.
- 316 stainless steel disc and 410 stainless steel stem.
- EPDM and BUNA-N seats.
- Mounting pad for direct mount actuator per ISO 5211.
- Pressure range: 29 inHg vacuum to 160 PSI.

PNEUMATIC ACTUATOR FEATURES

- E Series double acting rack and pinion actuator.
- Corrosion resistant coating.
- NAMUR solenoid mounting pad, ISO 5211 mounting standard.
- Visual position indicators.
- High duty cycle.
- Permanent lubrication.
- Temperature range: -4°F to 175°F.

STLB7 Series 14" to 24" Sizes

Lug style butterfly valve with explosion proof electric actuator, NEMA 7, 120 VAC
 (Actuators are sized for 50 PSI liquid media line pressure, contact factory for higher line pressure ratings)



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	C	D	E	F	G	H	I	J	K	Actuator	Wt. (lbs.)	Model No.	
														EPDM	BUNA-N
14"	3.07	13.31	34.98	14.00	7.62	13.60	10.41	12.99	(12) 1"-8	18.75	3.88	BEEM82018C	328	QSTLESB7	QSTLBSB7
16"	4.02	13.31	35.14	14.00	7.62	13.76	11.75	14.92	(16) 1"-8	21.25	3.88	BEEM82018C	428	RSTLESB7	RSTLBSB7
18"	4.49	13.31	37.13	14.00	7.62	15.75	13.78	17.20	(16) 1.12"-7	22.75	3.88	BEEM83030C	495	SSTLESB7	SSTLBSB7
20"	5.00	13.31	38.70	14.00	7.62	17.32	14.96	19.29	(20) 1.12"-7	25.00	3.88	BEEM83030C	697	TSTLESB7	TSTLBSB7
24"	6.06	13.31	41.46	14.00	7.62	20.08	17.32	22.62	(20) 1.25"-7	29.50	3.88	BEEM83030C	871	USTLESB7	USTLBSB7

STL VALVE FEATURES

- Silicone free lug style butterfly valve.
- Ductile iron body.
- 316 stainless steel disc and 410 stainless steel stem.
- EPDM and BUNA-N seats.
- Mounting pad for direct mount actuator per ISO 5211.
- Pressure range: 29 inHg vacuum to 160 PSI.

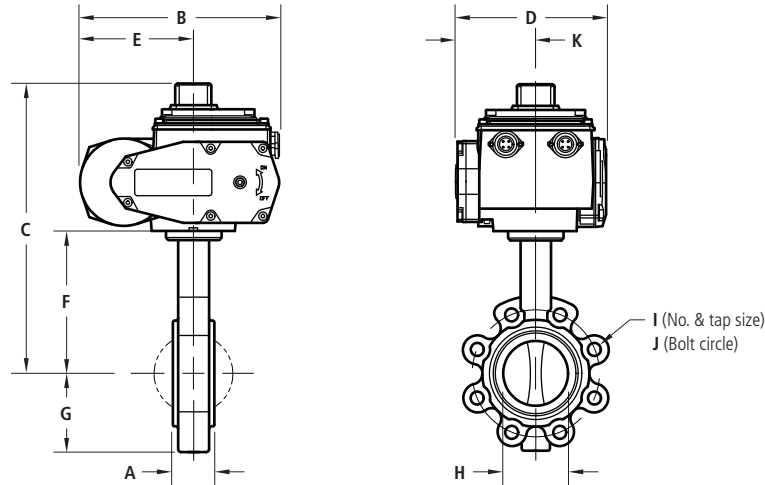
ELECTRIC ACTUATOR FEATURES

- B7 Series electric actuator.
- Actuator speed: 18 sec. (14" to 16"), 30 sec. (18" to 24").
- NEMA 4, 7 and 9; CSA approved.
- Weatherproof.
- Class I Groups C and D, Div. 1.
- Class II Groups E, F and G.
- (2) 1/2" NPT conduit entries.
- Manual override.
- Position indicator.
- CSA certified.
- Temperature range: 0°F to 160°F.

STLI4 Series

Lug style butterfly valve with electric actuator

(Actuators are sized for 150 PSI liquid media line pressure, contact factory for higher line pressure ratings)



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	C	D	E	F	G	H	I	J	K	Actuator	Wt. (lbs.)	Model No.	
														EPDM	BUNA-N
2"	1.69	7.56	10.64	5.36	3.58	5.12	2.95	1.99	(4) 5/8"-11	4.75	2.37	I4600	17.9	HSTLES14	HSTLBS14
2-1/2"	1.81	7.56	10.95	5.36	3.58	5.39	3.15	2.61	(4) 5/8"-11	5.50	2.37	I4600	19.9	ISTLES14	ISTLBS14
3"	1.81	7.56	11.11	5.36	3.58	6.14	3.74	3.11	(4) 5/8"-11	6.00	2.37	I4600	21.9	JSTLES14	JSTLBS14
4"	2.05	7.56	11.96	5.36	3.58	6.69	4.33	3.92	(8) 5/8"-11	7.50	2.37	I4600	30.9	KSTLES14	KSTLBS14
5"	2.20	7.56	12.90	5.36	3.58	7.28	4.84	4.89	(8) 3/4"-10	8.50	2.37	I4600	34.9	LSTLES14	LSTLBS14
6"	2.20	8.73	14.30	6.30	4.75	7.99	5.63	5.89	(8) 3/4"-10	9.50	3.31	I41150	52.5	MSTLES14	MSTLBS14
8"	2.36	8.73	15.62	6.30	4.75	9.37	6.61	7.70	(8) 3/4"-10	11.75	3.31	I41150	63.5	NSTLES14	NSTLBS14
10"	2.68	8.73	17.43	6.30	4.75	10.63	7.99	9.72	(12) 7/8"-9	14.25	3.31	I42100	85.5	OSTLES14	OSTLBS14
12"	3.07	8.73	18.49	6.30	4.75	12.20	9.53	11.63	(12) 7/8"-9	17.00	3.31	I42100	159.5	PSTLES14	PSTLBS14

STL VALVE FEATURES

- Silicone free lug style butterfly valve.
- Ductile iron body.
- 316 stainless steel disc and 410 stainless steel stem.
- EPDM and BUNA-N seats.
- Mounting pad for direct mount actuator per ISO 5211.
- Pressure range: 29 inHg vacuum to 160 PSI.

ELECTRIC ACTUATOR FEATURES

- I4 Series electric actuator.
- Weatherproof enclosure IP65.
- Voltages available: 115 VAC, 24 VAC/VDC.
- Duty cycle: 50%.
- IP65 electrical connectors.
- Space heater.
- Extra (2) SPDT adjustable limit switches.
- Temperature range: 0°F to 140°F.

HPW Series

High Performance Wafer Style Butterfly Valve



The HPW is a high performance wafer style butterfly valve that can be equipped with a manual handle or with pneumatic or electric actuators.

A full range of accessory items are available including limit switches, solenoid valves, positioners and manual override devices.

FEATURES

- ANSI Class 150 or 300.
- Complete line of accessories.

MATERIALS OF CONSTRUCTION

Seat:
RTFE.

Disc:
316 stainless steel.

Body:
Carbon steel or 316 stainless steel.

ACTUATOR CONFIGURATIONS

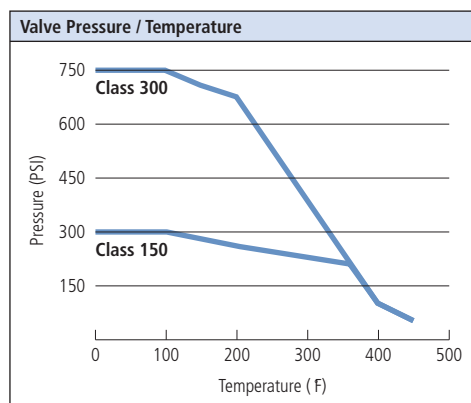
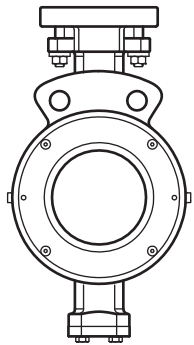
- Electric.
- Pneumatic (spring return).
- Pneumatic (double acting).
- Manual handle.
- Manual handle with limit switch.

PRESSURE RANGE

Class 150:
29 inHg vacuum to 285 PSI

Class 300:
29 inHg vacuum to 740 PSI

Wafer Style Valve ►
Installs between flanges.
Bolts span the body.



CV FACTORS

Size	CV at Specified Disc Opening								
	10°	20°	30°	40°	50°	60°	70°	80°	90°
Class 150									
2"	2	5	12	19	32	45	65	81	88
2-1/2"	3	9	21	33	54	77	111	138	150
3"	5	14	32	50	82	116	168	209	227
4"	9	25	57	90	148	209	303	377	410
5"	16	44	104	163	266	377	548	681	740
6"	25	65	150	235	380	540	785	975	1060
8"	55	130	305	480	785	1110	1615	2005	2200
10"	85	205	475	750	1225	1735	2520	3135	3400
12"	115	280	655	1025	1680	2380	3450	4290	4700
Class 300									
2"	2	5	12	19	32	45	65	81	88
2-1/2"	3	9	21	33	54	77	111	138	150
3"	5	14	32	50	82	116	168	209	227
4"	9	25	57	90	148	209	303	377	410
5"	16	44	104	163	266	377	548	681	740
6"	24	60	139	218	357	506	735	914	995
8"	45	110	260	410	670	945	1375	1710	1900
10"	75	175	415	650	1065	1505	2185	2720	3000
12"	105	250	580	910	1485	2115	3070	3815	41000

HPW Series

High Performance butterfly valve
(Wafer style)

CLASS 150 MAX. OPERATING TORQUES

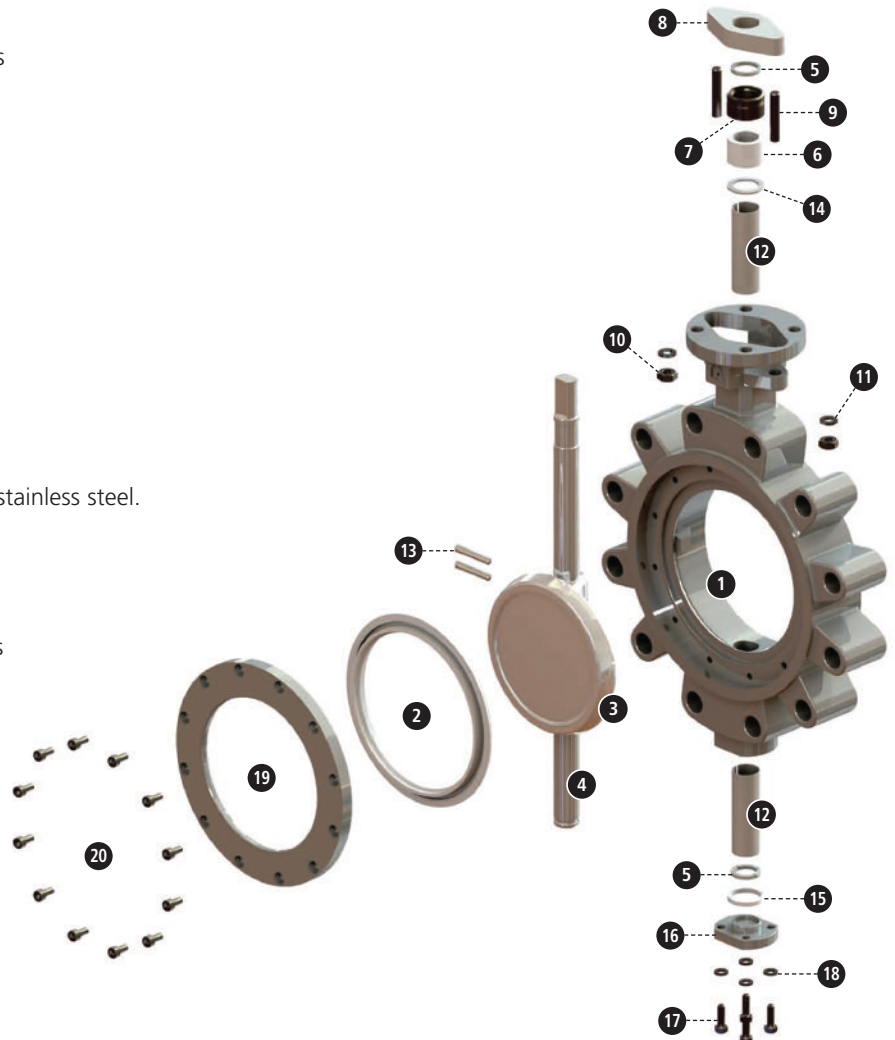
Size	Torque (in/lb) RTFE Seats			
	100 PSI	150 PSI	200 PSI	285 PSI
2"	286	312	345	371
2-1/2"	312	332	371	390
3"	325	358	390	423
4"	416	481	566	631
5"	598	715	826	943
6"	839	988	1138	1287
8"	1437	1612	1781	1957
10"	2015	2301	2587	2880
12"	2529	3166	3855	4544

CLASS 300 MAX. OPERATING TORQUES

Size	Torque (in/lb) RTFE Seats					
	150 PSI	300 PSI	400 PSI	500 PSI	600 PSI	740 PSI
2"	312	371	403	462	481	553
2-1/2"	332	399	423	481	507	585
3"	358	423	475	540	579	657
4"	481	631	715	865	930	1118
5"	715	943	1060	1287	1404	1677
6"	1037	1300	1437	1703	1828	2152
8"	1690	1970	2106	2379	2522	2854
10"	2587	3224	3569	4199	4544	5291
12"	3679	4661	5233	6383	6962	8340

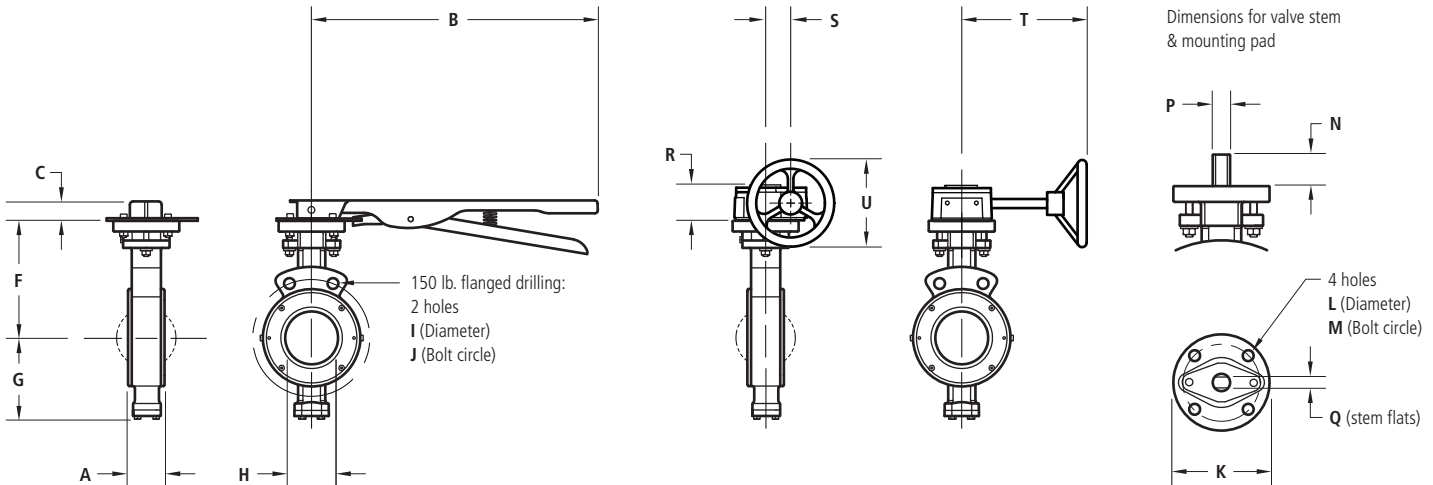
PARTS

- 1. Body:** Carbon steel (A216-WCB) or 316 stainless steel (A351-CF8M).
- 2. Seat Ring:** RTFE soft seat.
- 3. Disc:** 316 stainless steel (A351-CF8M) .
- 4. Stem:** 17/4 PH stainless steel.
- 5. Retainer Ring:** 316 stainless steel.
- 6. Packing:** PTFE graphite.
- 7. Packing Gland:** 316 stainless steel.
- 8. Gland Flange:** 316 stainless steel (A351-CF8M).
- 9. Gland Bolt:** Stainless steel.
- 10. Nut:** Stainless steel.
- 11. Spring Washer:** Stainless steel.
- 12. Bush Bearing:** RTFE/stainless steel or graphite/stainless steel.
- 13. Disc Pin:** Stainless steel.
- 14. Packing Retainer:** Stainless steel.
- 15. Cap Packing:** PTFE or graphite.
- 16. Cap:** Carbon steel (A216-WCB) or 316 stainless steel (A351-CF8M).
- 17. Cap Bolt:** Stainless steel.
- 18. Spring Washer:** Stainless steel.
- 19. Seat Retainer:** Carbon steel (A216-WCB) or 316 stainless steel (A351-CF8M).
- 20. Retainer Bolt:** Stainless steel.



HPW1M / HPW1G Series

150 lb. wafer style butterfly valve with latch handle (HPW1M) or gear operator (HPW1G)
 (Manual operation)



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	C	F	G	H	I	J	Wt.* (lbs.)	Model No. (HPW1M)	
										CS	316 SS
2"	1.69	8.27	1.25	4.92	3.94	1.85	.750	4.75	10.0	HHPW11RM	HHPW61RM
2-1/2"	1.85	10.24	1.25	5.87	4.02	2.40	.750	5.50	12.0	IHPW11RM	IHPW61RM
3"	1.89	10.24	1.25	6.30	4.41	2.83	.750	6.00	13.0	JHPW11RM	JHPW61RM
4"	2.13	13.13	1.25	7.01	4.88	3.74	.750	7.50	18.0	KHPW11RM	KHPW61RM
5"	2.24	13.13	1.25	7.60	5.55	4.65	.875	8.50	24.0	LHPW11RM	LHPW61RM
6"	2.24	13.13	1.25	8.39	6.57	5.43	.875	9.50	30.0	MHPW11RM	MHPW61RM

* Weight is for valve only.

MOUNTING DIMENSIONS & SPECIFICATIONS

Size	K	L	M	N	P	Q
2"	4.02	.43	3.25	1.25	.551	.374
2-1/2"	4.02	.43	3.25	1.25	.626	.437
3"	4.02	.43	3.25	1.25	.626	.437
4"	4.02	.43	3.25	1.25	.748	.500
5"	4.02	.43	3.25	1.25	.748	.500
6"	4.02	.43	3.25	1.25	.748	.500
8"	5.98	.55	5.00	1.25	.874	.626
10"	5.98	.55	5.00	2.05	1.126	.25 x .25 key
12"	5.98	.55	5.00	2.05	1.126	.25 x .25 key

ADDITIONAL DIMENSIONS & SPECIFICATIONS

Size	R	S	T	U	Gear Operator	Model No. (HPW1G)	
						CS	316 SS
2"	2.31	1.75	8.60	6.00	24:1	HHPW11RG	HHPW61RG
2-1/2"	2.31	1.75	8.60	6.00	24:1	IHPW11RG	IHPW61RG
3"	2.31	1.75	8.60	6.00	24:1	JHPW11RG	JHPW61RG
4"	2.31	1.75	8.60	6.00	24:1	KHPW11RG	KHPW61RG
5"	2.31	1.75	8.60	6.00	24:1	LHPW11RG	LHPW61RG
6"	2.31	1.75	8.60	6.00	24:1	MHPW11RG	MHPW61RG
8"	3.00	2.81	11.19	12.38	30:1	NHPW11RG	NHPW61RG
10"	3.00	2.81	11.19	12.38	30:1	OHPW11RG	OHPW61RG
12"	3.00	2.81	11.19	12.38	30:1	PHPW11RG	PHPW61RG

HPW1 VALVE FEATURES

- Wafer style, ANSI Class 150, high performance butterfly valve.
- Carbon steel or 316 stainless steel body.
- 316 stainless steel disc and 17/4PH stem.
- RTFE seat.
- Pressure range: 285 PSI.

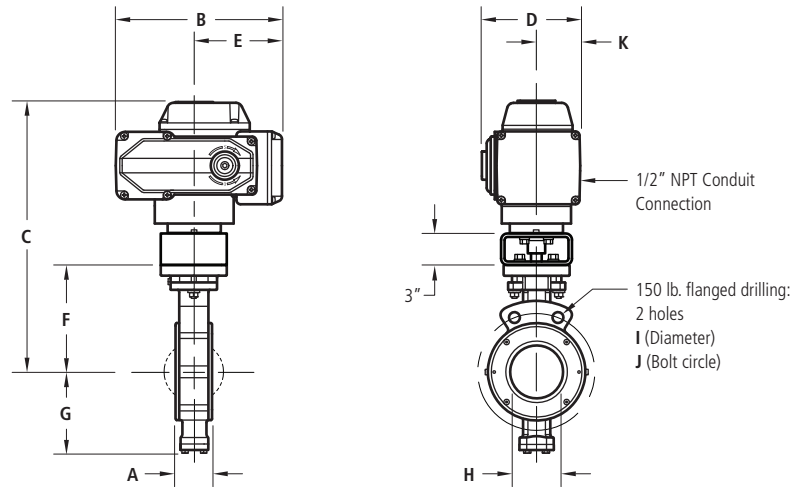
LEVER HANDLE FEATURES

- 10 position latch plate.

HPW1K4 Series

150 lb. wafer style butterfly valve with electric actuator

(Actuators are sized for 150 PSI liquid media line pressure, contact factory for higher line pressure ratings)



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	C	D	E	F	G	H	I	J	K	Actuator	Wt. (lbs.)	Model No.	
														CS	316 SS
2"	1.69	8.17	14.36	4.82	4.33	4.92	3.94	1.85	.750	4.75	2.15	UNIC10	25.0	HHPW11RK4	HHPW61RK4
2-1/2"	1.85	8.17	15.31	4.82	4.33	5.87	4.02	2.40	.750	5.50	2.15	UNIC10	27.0	IHPW11RK4	IHPW61RK4
3"	1.89	8.17	15.74	4.82	4.33	6.30	4.41	2.83	.750	6.00	2.15	UNIC10	28.0	JHPW11RK4	JHPW61RK4
4"	2.13	8.17	16.45	4.82	4.33	7.01	4.88	3.74	.750	7.50	2.15	UNIC10	33.0	KHPW11RK4	KHPW61RK4
5"	2.24	8.17	17.04	4.82	4.33	7.60	5.55	4.65	.875	8.50	2.15	UNIC10	39.0	LHPW11RK4	LHPW61RK4
6"	2.24	10.10	18.67	6.16	5.25	8.39	6.57	5.43	.875	9.50	2.45	UNIC20	51.5	MHPW11RK4	MHPW61RK4
8"	2.52	10.10	19.73	6.16	5.25	9.45	7.68	7.40	.875	11.75	2.45	UNIC20	68.5	NHPW11RK4	NHPW61RK4
10"	2.83	15.00	23.24	9.53	7.85	11.03	8.66	9.25	1.00	14.25	4.13	UNIC60	123.2	OHPW11RK4	OHPW61RK4
12"	3.19	15.00	24.41	9.53	7.85	12.20	10.43	10.83	1.00	17.00	4.13	UNIC60	148.2	PHPW11RK4	PHPW61RK4

HPW1 VALVE FEATURES

- Wafer style, ANSI Class 150, high performance butterfly valve.
- Carbon steel or 316 stainless steel body.
- 316 stainless steel disc and 17/4PH stem.
- RTFE seat.
- Pressure range: 285 PSI.

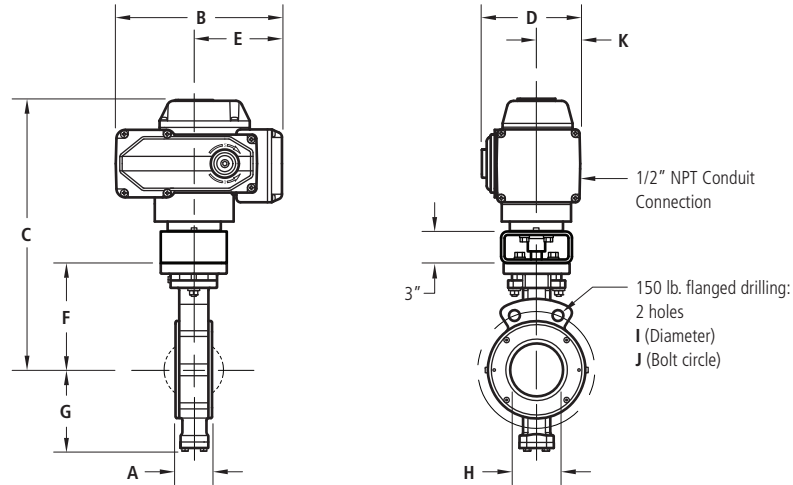
ELECTRIC ACTUATOR FEATURES

- K Series electric actuator.
- Actuator speed: 25 sec.
- Most voltages available.
- Quarter turn: 0-90° rotation.
- NEMA 4/4X certified by UL labs.
- ISO 5211 mounting standard.
- Visual position indicator.
- Self-locking drive train.
- Mounts in any direction.
- 1/2" NPT conduit connection.
- CSA-NRTL/C and CE certified.
- Temperature range: 0°F to 160°F.

HPW1K4-EP420 Series

150 lb. wafer style butterfly valve with electric actuator

(Actuators are sized for 150 PSI liquid media line pressure, contact factory for higher line pressure ratings)



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	C	D	E	F	G	H	I	J	K	Actuator	Wt. (lbs.)	Model No.	
														CS	316 SS
2"	1.69	8.17	14.36	4.82	4.33	4.92	3.94	1.85	.750	4.75	2.15	NUCOM-10NS/15	25.0	HHPW11RK4-EP420	HHPW61RK4-EP420
2-1/2"	1.85	8.17	15.31	4.82	4.33	5.87	4.02	2.40	.750	5.50	2.15	NUCOM-10NS/15	27.0	IHPW11RK4-EP420	IHPW61RK4-EP420
3"	1.89	8.17	15.74	4.82	4.33	6.30	4.41	2.83	.750	6.00	2.15	NUCOM-10NS/30	28.0	JHPW11RK4-EP420	JHPW61RK4-EP420
4"	2.13	8.17	16.45	4.82	4.33	7.01	4.88	3.74	.750	7.50	2.15	NUCOM-10NS/30	33.0	KHPW11RK4-EP420	KHPW61RK4-EP420
5"	2.24	10.10	17.15	6.16	5.25	7.60	5.55	4.65	.875	8.50	2.46	NUCOM-10NM/15	47.0	LHPW11RK4-EP420	LHPW61RK4-EP420
6"	2.24	10.10	17.94	6.16	5.25	8.39	6.57	5.43	.875	9.50	2.46	NUCOM-10NM/15	53.0	MHPW11RK4-EP420	MHPW61RK4-EP420
8"	2.52	10.10	19.00	6.16	5.25	9.45	7.68	7.40	.875	11.75	2.46	NUCOM-10NM/15	70.0	NHPW11RK4-EP420	NHPW61RK4-EP420
10"	2.83	15.00	20.76	9.53	7.85	11.03	8.66	9.25	1.00	14.25	4.13	NUCOM-10NL/15	121.0	OHPW11RK4-EP420	OHPW61RK4-EP420
12"	3.19	15.00	21.93	9.53	7.85	12.20	10.43	10.83	1.00	17.00	4.13	NUCOM-10NL/15	146.0	PHPW11RK4-EP420	PHPW61RK4-EP420

HPW1 VALVE FEATURES

- Wafer style, ANSI Class 150, high performance butterfly valve.
- Carbon steel or 316 stainless steel body.
- 316 stainless steel disc and 17/4PH stem.
- RTFE seat.
- Pressure range: 285 PSI.

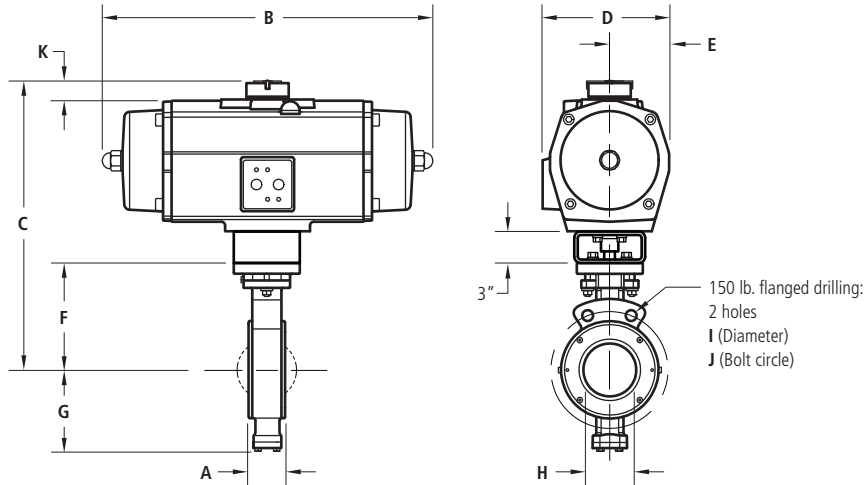
ELECTRIC ACTUATOR FEATURES

- K Series electric actuator.
- Actuator speed: 25 sec.
- Most voltages available.
- Quarter turn: 0-90° rotation.
- NEMA 4/4X certified by UL labs.
- ISO 5211 mounting standard.
- Visual position indicator.
- Self-locking drive train.
- Mounts in any direction.
- 1/2" NPT conduit connection.
- CSA-NRTL/C and CE certified.
- Temperature range: 0°F to 160°F.

HPW1ESR Series

150 lb. wafer style butterfly valve with spring return pneumatic actuator

(Actuators are sized for 150 PSI liquid media line pressure, contact factory for higher line pressure ratings)



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	C	D	E	F	G	H	I	J	K	Actuator	Wt. (lbs.)	Model No.	
														CS	316 SS
80 psig Minimum Actuator Air Supply = 85															
2"	1.69	14.17	14.34	5.39	2.52	4.92	3.94	1.85	.750	4.75	.79	ES200-5	35.1	HHPW11RE8S	HHPW61RE8S
2-1/2"	1.85	14.17	15.29	5.39	2.52	5.87	4.02	2.40	.750	5.50	.79	ES200-5	37.1	IHPW11RE8S	IHPW61RE8S
3"	1.89	14.17	15.72	5.39	2.52	6.30	4.41	2.83	.750	6.00	.79	ES200-5	38.1	JHPW11RE8S	JHPW61RE8S
4"	2.13	14.17	16.43	5.39	2.52	7.01	4.88	3.74	.750	7.50	.79	ES200-5	43.0	KHPW11RE8S	KHPW61RE8S
5"	2.24	15.24	18.52	7.12	3.41	7.60	5.55	4.65	.875	8.50	.79	ES350-5	66.3	LHPW11RE8S	LHPW61RE8S
6"	2.24	15.24	19.31	7.12	3.41	8.39	6.57	5.43	.875	9.50	.79	ES350-5	72.3	MHPW11RE8S	MHPW61RE8S
8"	2.52	18.78	22.29	8.52	4.08	9.45	7.68	7.40	.875	11.75	.79	ES600-5	112.8	NHPW11RE8S	NHPW61RE8S
10"	2.83	20.35	25.41	9.51	4.54	11.03	8.86	9.25	1.00	14.25	1.18	ES950-5	162.1	OHPW11RE8S	OHPW61RE8S
12"	3.19	20.35	26.58	9.51	4.54	12.20	10.43	10.83	1.00	17.00	1.18	ES950-5	187.1	PHPW11RE8S	PHPW61RE8S
60 psig Minimum Actuator Air Supply = 65															
2"	1.69	14.17	14.34	5.39	2.52	4.92	3.94	1.85	.750	4.75	.79	ES200-4	35.1	HHPW11RE6S	HHPW61RE6S
2-1/2"	1.85	14.17	15.29	5.39	2.52	5.87	4.02	2.40	.750	5.50	.79	ES200-4	37.1	IHPW11RE6S	IHPW61RE6S
3"	1.89	14.17	15.72	5.39	2.52	6.30	4.41	2.83	.750	6.00	.79	ES200-4	38.1	JHPW11RE6S	JHPW61RE6S
4"	2.13	15.24	16.43	7.12	3.41	7.01	4.88	3.74	.750	7.50	.79	ES350-4	60.3	KHPW11RE6S	KHPW61RE6S
5"	2.24	15.24	18.52	7.12	3.41	7.60	5.55	4.65	.875	8.50	.79	ES350-4	66.3	LHPW11RE6S	LHPW61RE6S
6"	2.24	15.24	19.31	7.12	3.41	8.39	6.57	5.43	.875	9.50	.79	ES350-4	72.3	MHPW11RE6S	MHPW61RE6S
8"	2.52	18.78	22.29	8.52	4.08	9.45	7.68	7.40	.875	11.75	.79	ES600-4	112.8	NHPW11RE6S	NHPW61RE6S
10"	2.83	20.35	25.41	9.51	4.54	11.03	8.86	9.25	1.00	14.25	1.18	ES950-4	162.1	OHPW11RE6S	OHPW61RE6S
12"	3.19	25.08	26.58	10.81	5.21	12.20	10.43	10.83	1.00	17.00	1.18	ES1600-4	247.1	PHPW11RE6S	PHPW61RE6S

HPW1 VALVE FEATURES

- Wafer style, ANSI Class 150, high performance butterfly valve.
- Carbon steel or 316 stainless steel body.
- 316 stainless steel disc and 17/4PH stem.
- RTFE seat.
- Pressure range: 285 PSI.

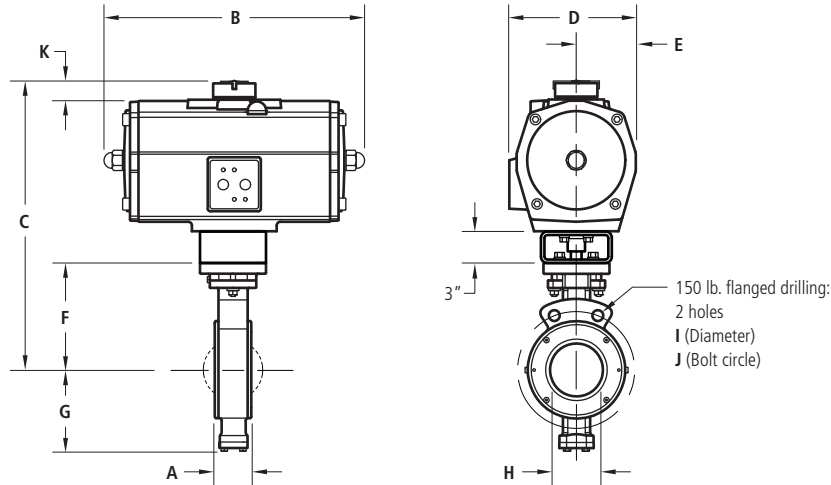
PNEUMATIC ACTUATOR FEATURES

- E Series spring return rack and pinion actuator.
- Corrosion resistant coating.
- NAMUR solenoid mounting pad, ISO 5211 mounting standard.
- Visual position indicator.
- High duty cycle, permanent lubrication.
- Temperature range: -4°F to 175°F.

HPW1EDA Series

150 lb. wafer style butterfly valve with double acting pneumatic actuator

(Actuators are sized for 150 PSI liquid media line pressure, contact factory for higher line pressure ratings)



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	C	D	E	F	G	H	I	J	K	Actuator	Wt. (lbs.)	Model No.	
														CS	316 SS
80 psig Minimum Actuator Air Supply = 8D															
2"	1.69	7.09	12.37	3.78	1.70	4.92	3.94	1.85	.750	4.75	.79	ED40	19.0	HHPW11RE8D	HHPW61RE8D
2-1/2"	1.85	7.09	13.32	3.78	1.70	5.87	4.02	2.40	.750	5.50	.79	ED40	21.0	IHPW11RE8D	IHPW61RE8D
3"	1.89	7.83	14.22	4.19	1.93	6.30	4.41	2.83	.750	6.00	.79	ED65	23.3	JHPW11RE8D	JHPW61RE8D
4"	2.13	7.83	14.93	4.19	1.93	7.01	4.88	3.74	.750	7.50	.79	ED65	28.8	KHPW11RE8D	KHPW61RE8D
5"	2.24	8.70	16.04	4.60	2.12	7.60	5.55	4.65	.875	8.50	.79	ED100	35.8	LHPW11RE8D	LHPW61RE8D
6"	2.24	11.14	17.81	5.39	2.52	8.39	6.57	5.43	.875	9.50	.79	ED200	47.8	MHPW11RE8D	MHPW61RE8D
8"	2.52	11.14	18.87	5.39	2.52	9.45	7.68	7.40	.875	11.75	.79	ED200	64.8	NHPW11RE8D	NHPW61RE8D
10"	2.83	12.01	21.95	7.12	3.41	11.03	8.66	9.25	1.00	14.25	.79	ED350	99.9	OHPW11RE8D	OHPW61RE8D
12"	3.19	12.01	23.12	7.12	3.41	12.20	10.43	10.83	1.00	17.00	.79	ED350	124.9	PHPW11RE8D	PHPW61RE8D
60 psig Minimum Actuator Air Supply = 6D															
2"	1.69	7.83	12.84	4.19	1.93	4.92	3.94	1.85	.750	4.75	.79	ED65	20.3	HHPW11RE6D	HHPW61RE6D
2-1/2"	1.85	7.83	13.79	4.19	1.93	5.87	4.02	2.40	.750	5.50	.79	ED65	22.3	IHPW11RE6D	IHPW61RE6D
3"	1.89	7.83	14.22	4.19	1.93	6.30	4.41	2.83	.750	6.00	.79	ED65	23.3	JHPW11RE6D	JHPW61RE6D
4"	2.13	8.70	15.45	4.60	2.12	7.01	4.88	3.74	.750	7.50	.79	ED100	29.8	KHPW11RE6D	KHPW61RE6D
5"	2.24	11.14	17.02	5.39	2.52	7.60	5.55	4.65	.875	8.50	.79	ED200	41.8	LHPW11RE6D	LHPW61RE6D
6"	2.24	11.14	17.81	5.39	2.52	8.39	6.57	5.43	.875	9.50	.79	ED200	47.8	MHPW11RE6D	MHPW61RE6D
8"	2.52	12.01	20.37	7.12	3.41	9.45	7.68	7.40	.875	11.75	.79	ED350	74.9	NHPW11RE6D	NHPW61RE6D
10"	2.83	12.01	21.95	7.12	3.41	11.03	8.66	9.25	1.00	14.25	.79	ED350	99.9	OHPW11RE6D	OHPW61RE6D
12"	3.19	15.24	25.04	8.52	4.08	12.20	10.43	10.83	1.00	17.00	1.18	ED600	144.8	PHPW11RE6D	PHPW61RE6D

HPW1 VALVE FEATURES

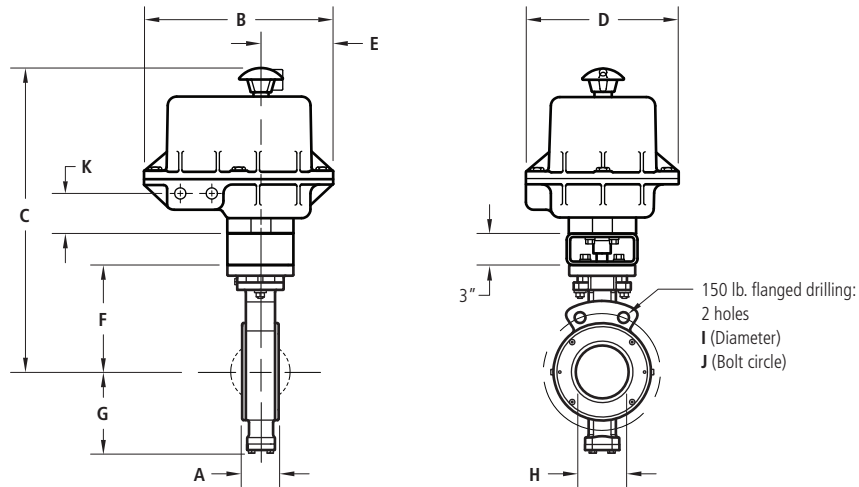
- Wafer style, ANSI Class 150, high performance butterfly valve.
- Carbon steel or 316 stainless steel body.
- 316 stainless steel disc and 17/4PH stem.
- RTFE seat.
- Pressure range: 285 PSI.

PNEUMATIC ACTUATOR FEATURES

- E Series double acting rack and pinion actuator.
- Corrosion resistant coating.
- NAMUR solenoid mounting pad, ISO 5211 mounting standard.
- Visual position indicator.
- High duty cycle, permanent lubrication.
- Temperature range: -4°F to 175°F.

HPW1B7 Series 2" to 5" Sizes

150 lb. wafer style butterfly valve with explosion proof electric actuator, NEMA 7, 120 VAC
 (Actuators are sized for 150 PSI liquid media line pressure, contact factory for higher line pressure ratings)



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	C	D	E	F	G	H	I	J	K	Actuator	Wt. (lbs.)	Model No.	
														CS	316 SS
2"	1.69	9.75	17.36	7.75	3.75	4.92	3.94	1.85	.750	4.75	2.44	BEEM510F	33.0	HHPW11RSB7	HHPW61RSB7
2-1/2"	1.85	9.75	18.31	7.75	3.75	5.87	4.02	2.40	.750	5.50	2.44	BEEM510F	35.0	IHPW11RSB7	IHPW61RSB7
3"	1.89	9.75	18.74	7.75	3.75	6.30	4.41	2.83	.750	6.00	2.44	BEEM510F	36.0	JHPW11RSB7	JHPW61RSB7
4"	2.13	9.75	19.45	7.75	3.75	7.01	4.88	3.74	.750	7.50	2.44	BEEM510F	41.0	KHPW11RSB7	KHPW61RSB7
5"	2.24	9.75	20.04	7.75	3.75	7.60	5.55	4.65	.875	8.50	2.44	BEEM510F	47.0	LHPW11RSB7	LHPW61RSB7

HPW1 VALVE FEATURES

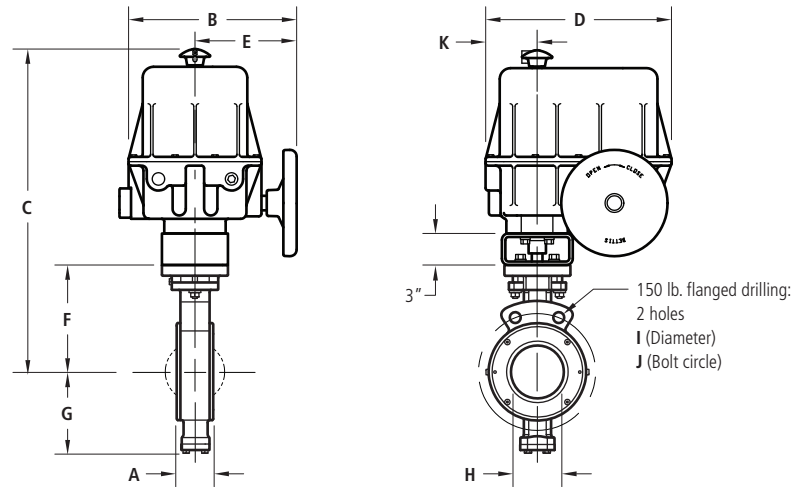
- Wafer style, ANSI Class 150, high performance butterfly valve.
- Carbon steel or 316 stainless steel body.
- 316 stainless steel disc and 17/4PH stem.
- RTFE seat.
- Pressure range: 285 PSI.

ELECTRIC ACTUATOR FEATURES

- B7 Series electric actuator.
- Actuator speed: 15 sec.
- NEMA 4, 4x, 7 and 9; CSA approved.
- Weatherproof.
- Class I Groups C and D, Div. 1.
- Class II Groups E, F and G.
- (2) 1/2" NPT conduit entries.
- Manual override.
- Visual position indicator.
- CSA certified.
- Temperature range: 0°F to 160°F.

HPW1B7 Series 6" to 12" Sizes

150 lb. wafer style butterfly valve with explosion proof electric actuator, NEMA 7, 120 VAC
 (Actuators are sized for 150 PSI liquid media line pressure, contact factory for higher line pressure ratings)



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	C	D	E	F	G	H	I	J	K	Actuator	Wt. (lbs.)	Model No.	
														CS	316 SS
6"	2.24	13.31	26.77	7.75	7.62	8.39	6.57	5.43	.875	9.50	3.88	BEEM82018C	195.0	MHPW11RSB7	MHPW61RSB7
8"	2.52	13.31	27.83	14.00	7.62	9.45	7.68	7.40	.875	11.75	3.88	BEEM82018C	212.0	NHPW11RSB7	NHPW61RSB7
10"	2.83	13.31	29.41	14.00	7.62	11.03	8.66	9.25	1.00	14.25	3.88	BEEM82018C	237.0	OHPW11RSB7	OHPW61RSB7
12"	3.19	13.31	30.53	14.00	7.62	12.20	10.43	10.83	1.00	17.00	3.88	BEEM82018C	262.0	PHPW11RSB7	PHPW61RSB7

HPW1 VALVE FEATURES

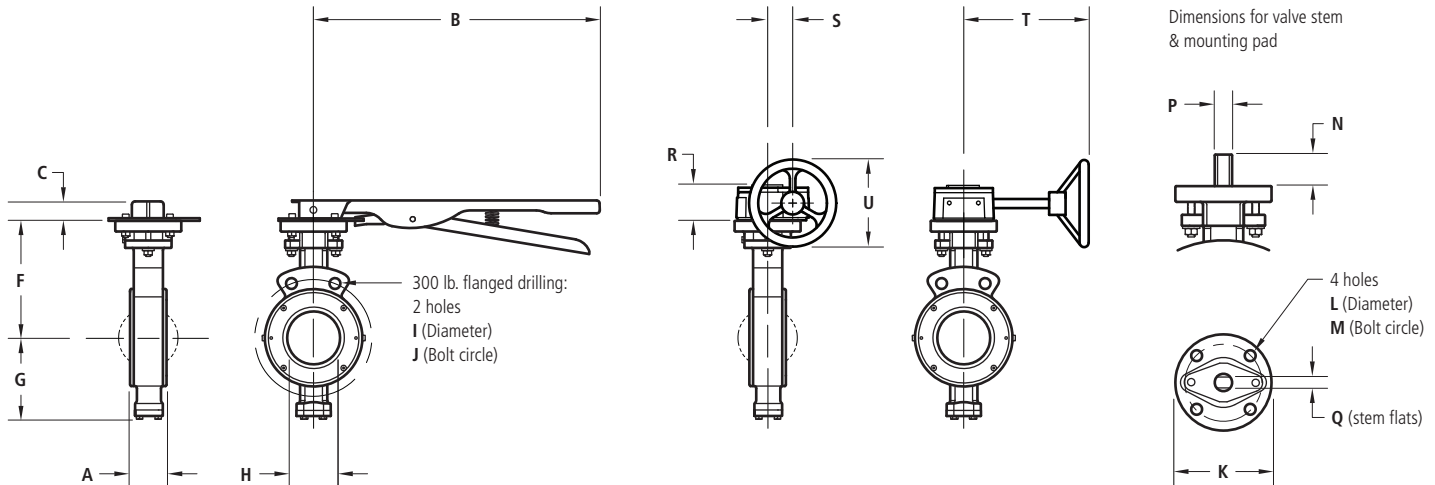
- Wafer style, ANSI Class 150, high performance butterfly valve.
- Carbon steel or 316 stainless steel body.
- 316 stainless steel disc and 17/4PH stem.
- RTFE seat.
- Pressure range: 285 PSI.

ELECTRIC ACTUATOR FEATURES

- B7 Series electric actuator.
- Actuator speed: 18 sec.
- NEMA 4, 7 and 9; CSA approved.
- Weatherproof.
- Class I Groups C and D, Div. 1.
- Class II Groups E, F and G.
- (2) 1/2" NPT conduit entries.
- Manual override.
- Visual position indicator.
- CSA certified.
- Temperature range: 0°F to 160°F.

HPW3M / HPW3G Series

300 lb. wafer style butterfly valve with latch handle (HPW3M) or gear operator (HPW3G)
(Manual operation)



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	C	F	G	H	I	J	Wt.* (lbs.)	Model No. (HPW3M)	
										CS	316 SS
2"	1.69	8.27	1.25	4.92	3.94	1.85	(2) 5/8"-11	5.00	12.0	HHPW13RM	IHPW63RM
2-1/2"	1.85	10.24	1.25	5.87	4.02	2.36	(2) 3/4"-10	5.88	16.0	IHPW13RM	IHPW63RM
3"	1.89	10.24	1.25	6.30	4.41	2.87	(2) 3/4"-10	6.62	19.0	JHPW13RM	JHPW63RM
4"	2.13	13.13	1.25	7.01	4.88	3.74	(2) 3/4"-10	7.88	27.0	KHPW13RM	KHPW63RM
5"	2.25	13.13	1.25	7.60	5.55	4.69	(2) 3/4"-10	9.25	36.0	LHPW13RM	LHPW63RM
6"	2.32	13.13	1.25	8.66	6.93	5.47	(2) 3/4"-10	10.62	52.0	MHPW13RM	MHPW63RM

* Weight is for valve only.

MOUNTING DIMENSIONS & SPECIFICATIONS

Size	K	L	M	N	P	Q
2"	4.02	.43	3.25	1.26	.551	.374
2-1/2"	4.02	.43	3.25	1.26	.626	.437
3"	4.02	.43	3.25	1.26	.626	.437
4"	4.02	.43	3.25	1.26	.748	.500
5"	4.02	.43	3.25	1.26	.748	.500
6"	4.02	.43	3.25	1.26	.748	.500
8"	5.98	.55	5.00	2.01	1.126	.25 x .25 key
10"	5.98	.55	5.00	2.01	1.126	.25 x .25 key
12"	5.98	.55	5.00	2.01	1.374	.31 x .31 key

ADDITIONAL DIMENSIONS & SPECIFICATIONS

Size	R	S	T	U	Gear Operator	Model No. (HPW3G)	
						CS	316 SS
2"	2.31	1.75	8.60	6.00	24:1	HHPW13RG	HHPW63RG
2-1/2"	2.31	1.75	8.60	6.00	24:1	IHPW13RG	IHPW63RG
3"	2.31	1.75	8.60	6.00	24:1	JHPW13RG	JHPW63RG
4"	2.31	1.75	8.60	6.00	24:1	KHPW13RG	KHPW63RG
5"	2.31	1.75	8.60	6.00	24:1	LHPW13RG	LHPW63RG
6"	2.31	1.75	8.60	6.00	24:1	MHPW13RG	MHPW63RG
8"	3.00	2.81	11.19	12.38	30:1	NHPW13RG	NHPW63RG
10"	3.00	2.81	11.19	12.38	30:1	OHPW13RG	OHPW63RG
12"	3.00	2.81	11.19	12.38	30:1	PHPW13RG	PHPW63RG

HPW3 VALVE FEATURES

- Wafer style, ANSI Class 300, high performance butterfly valve.
- Carbon steel or 316 stainless steel body.
- 316 stainless steel disc and 17/4PH stem.
- RTFE seat.
- Pressure range: 740 PSI.

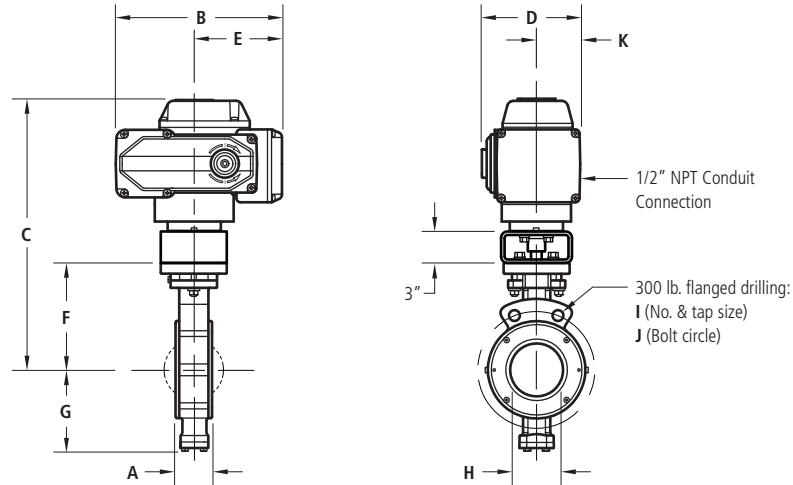
LEVER HANDLE FEATURES

- 10 position latch plate.

HPW3K4 Series

300 lb. wafer style butterfly valve with electric actuator

(Actuators are sized for 300 PSI liquid media line pressure, contact factory for higher line pressure ratings)



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	C	D	E	F	G	H	I	J	K	Actuator	Wt. (lbs.)	Model No.	
														CS	316 SS
2"	1.69	8.17	14.36	4.82	4.33	4.92	3.94	1.85	(2) 5/8"-11	5.00	2.15	UNIC10	27.0	HHPW13RK4	HHPW63RK4
2-1/2"	1.85	8.17	15.31	4.82	4.33	5.87	4.02	2.36	(2) 3/4"-10	5.88	2.15	UNIC10	31.0	IHPW13RK4	IHPW63RK4
3"	1.89	8.17	15.74	4.82	4.33	6.30	4.41	2.87	(2) 3/4"-10	6.62	2.15	UNIC10	34.0	JHPW13RK4	JHPW63RK4
4"	2.13	10.10	17.29	6.16	5.25	7.01	4.88	3.74	(2) 3/4"-10	7.88	2.46	UNIC20	48.5	KHPW13RK4	KHPW63RK4
5"	2.25	10.10	17.88	6.16	5.25	7.60	5.55	4.69	(2) 3/4"-10	9.25	2.46	UNIC20	57.5	LHPW13RK4	LHPW63RK4
6"	2.32	10.10	18.94	6.16	5.25	8.66	6.93	5.47	(2) 3/4"-10	10.62	2.46	UNIC20	73.5	MHPW13RK4	MHPW63RK4
8"	2.88	15.00	22.45	9.53	7.85	10.24	8.46	7.36	(2) 7/8"-9	13.00	4.13	UNIC60	131.2	NHPW13RK4	NHPW63RK4
10"	3.27	15.00	23.63	9.53	7.85	11.42	9.53	9.21	(4) 1"-8	15.25	4.13	UNIC60	151.2	OHPW13RK4	OHPW63RK4
12"	3.62	15.00	25.01	9.53	7.85	12.80	10.75	10.83	(4) 1-1/8"-8	17.75	4.13	UNIC100	172.7	PHPW13RK4	PHPW63RK4

HPW3 VALVE FEATURES

- Wafer style, ANSI Class 300, high performance butterfly valve.
- Carbon steel or 316 stainless steel body.
- 316 stainless steel disc and 17/4PH stem.
- RTFE seat.
- Pressure range: 740 PSI.

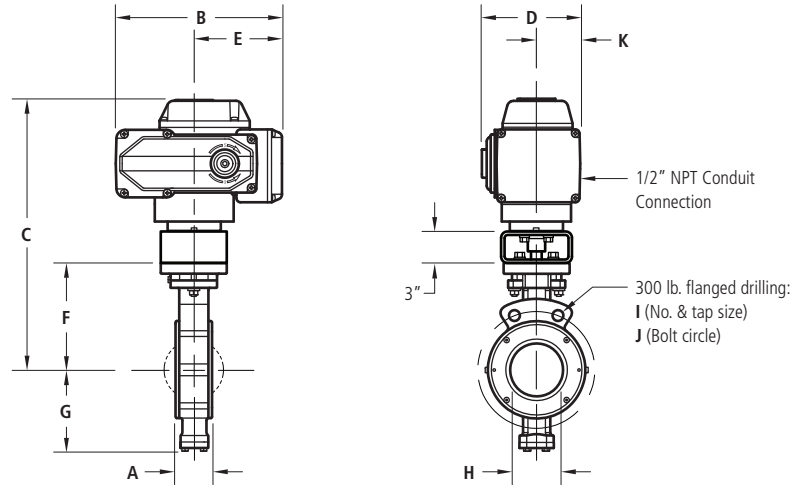
ELECTRIC ACTUATOR FEATURES

- K Series electric actuator.
- Actuator speed: 25 sec.
- Most voltages available.
- Quarter turn: 0-90° rotation.
- NEMA 4/4X certified by UL labs.
- ISO 5211 mounting standard.
- Visual position indicator.
- Self-locking drive train.
- Mounts in any direction.
- 1/2" NPT conduit connection.
- CSA-NRTL/C and CE certified.
- Temperature range: 0°F to 160°F.

HPW3K4-EP420 Series

300 lb. wafer style butterfly valve with electric actuator

(Actuators are sized for 300 PSI liquid media line pressure, contact factory for higher line pressure ratings)



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	C	D	E	F	G	H	I	J	K	Actuator	Wt. (lbs.)	Model No.	
														CS	316 SS
2"	1.69	10.10	14.47	6.16	5.25	4.92	3.94	1.85	(2) 5/8"-11	5.00	2.46	NUCOM-10NM/15	35.0	HHPW13RK4-EP420	HHPW63RK4-EP420
2-1/2"	1.85	10.10	15.42	6.16	5.25	5.87	4.02	2.36	(2) 3/4"-10	5.88	2.46	NUCOM-10NM/15	39.0	IHPW13RK4-EP420	IHPW63RK4-EP420
3"	1.89	10.10	15.85	6.16	5.25	6.30	4.41	2.87	(2) 3/4"-10	6.62	2.46	NUCOM-10NM/15	42.0	JHPW13RK4-EP420	JHPW63RK4-EP420
4"	2.13	10.10	16.56	6.16	5.25	7.01	4.88	3.74	(2) 3/4"-10	7.88	2.46	NUCOM-10NM/15	50.0	KHPW13RK4-EP420	KHPW63RK4-EP420
5"	2.25	10.10	17.15	6.16	5.25	7.60	5.55	4.69	(2) 3/4"-10	9.25	2.46	NUCOM-10NM/15	59.0	LHPW13RK4-EP420	LHPW63RK4-EP420
6"	2.32	10.10	18.21	6.16	5.25	8.66	6.93	5.47	(2) 3/4"-10	10.62	2.46	NUCOM-10NM/15	75.0	MHPW13RK4-EP420	MHPW63RK4-EP420
8"	2.88	15.00	19.97	9.53	7.85	10.24	8.46	7.36	(2) 7/8"-9	13.00	4.13	NUCOM-10NL/15	129.0	NHPW13RK4-EP420	NHPW63RK4-EP420
10"	3.27	15.00	21.15	9.53	7.85	11.42	9.53	9.21	(4) 1"-8	15.25	4.13	NUCOM-10NL/15	149.0	OHPW13RK4-EP420	OHPW63RK4-EP420
12"	3.62	15.00	22.53	9.53	7.85	12.80	10.75	10.83	(4) 1-1/8"-8	17.75	4.13	NUCOM-10NL/100	169.0	PHPW13RK4-EP420	PHPW63RK4-EP420

HPW3 VALVE FEATURES

- Wafer style, ANSI Class 300, high performance butterfly valve.
- Carbon steel or 316 stainless steel body.
- 316 stainless steel disc and 17/4PH stem.
- RTFE seat.
- Pressure range: 740 PSI.

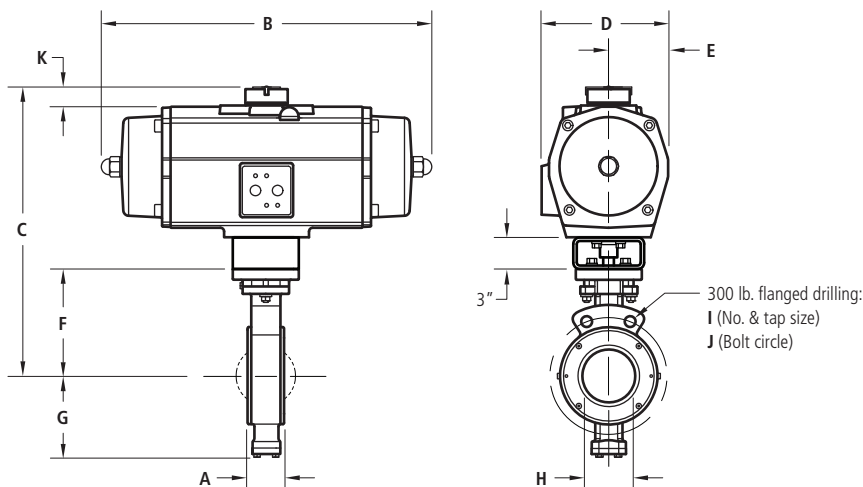
ELECTRIC ACTUATOR FEATURES

- K Series electric actuator.
- Actuator speed: 25 sec.
- Most voltages available.
- Quarter turn: 0-90° rotation.
- NEMA 4/4X certified by UL labs.
- ISO 5211 mounting standard.
- Visual position indicator.
- Self-locking drive train.
- Mounts in any direction.
- 1/2" NPT conduit connection.
- CSA-NRTL/C and CE certified.
- Temperature range: 0°F to 160°F.

HPW3ESR Series

300 lb. wafer style butterfly valve with spring return pneumatic actuator

(Actuators are sized for 300 PSI liquid media line pressure, contact factory for higher line pressure ratings)



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	C	D	E	F	G	H	I	J	K	Actuator	Wt. (lbs.)	Model No.	
														CS	316 SS
80 psig Minimum Actuator Air Supply = 85															
2"	1.69	14.17	14.34	5.39	2.52	4.92	3.94	1.85	(2) 5/8"-11	5.00	.79	ES200-5	37.1	HHPW13RE8S	HHPW63RE8S
2-1/2"	1.85	14.17	15.29	5.39	2.52	5.87	4.02	2.36	(2) 3/4"-10	5.88	.79	ES200-5	41.1	IHPW13RE8S	IHPW63RE8S
3"	1.89	14.17	15.72	5.39	2.52	6.30	4.41	2.87	(2) 3/4"-10	6.62	.79	ES200-5	44.1	JHPW13RE8S	JHPW63RE8S
4"	2.13	15.24	17.93	7.12	3.41	7.01	4.88	3.74	(2) 3/4"-10	7.88	.79	ES350-5	69.3	KHPW13RE8S	KHPW63RE8S
5"	2.25	15.24	18.52	7.12	3.41	7.60	5.55	4.69	(2) 3/4"-10	9.25	.79	ES350-5	78.3	LHPW13RE8S	LHPW63RE8S
6"	2.32	18.78	21.50	8.52	4.08	8.66	6.93	5.47	(2) 3/4"-10	10.62	1.18	ES600-5	117.8	MHPW13RE8S	MHPW63RE8S
8"	2.88	20.35	24.62	9.51	4.54	10.24	8.46	7.36	(2) 7/8"-9	13.00	1.18	ES950-5	170.1	NHPW13RE8S	NHPW63RE8S
10"	3.27	25.08	27.29	10.81	5.21	11.42	9.53	9.21	(4) 1"-8	15.25	1.18	ES1600-5	250.1	OHPW13RE8S	OHPW63RE8S
12"	3.62	22.44	31.00	14.17	6.89	12.80	10.75	10.83	(4) 1-1/8"-8	17.75	1.18	PS2500-5	319.0	PHPW13RE8S	PHPW63RE8S
60 psig Minimum Actuator Air Supply = 65															
2"	1.69	14.17	14.34	5.39	2.52	4.92	3.94	1.85	(2) 5/8"-11	5.00	.79	ES200-4	37.1	HHPW13RE6S	HHPW63RE6S
2-1/2"	1.85	14.17	15.29	5.39	2.52	5.87	4.02	2.36	(2) 3/4"-10	5.88	.79	ES200-4	41.1	IHPW13RE6S	IHPW63RE6S
3"	1.89	15.24	17.22	7.12	3.41	6.30	4.41	2.87	(2) 3/4"-10	6.62	.79	ES350-4	61.3	JHPW13RE6S	JHPW63RE6S
4"	2.13	15.24	17.93	7.12	3.41	7.01	4.88	3.74	(2) 3/4"-10	7.88	.79	ES350-4	69.3	KHPW13RE6S	KHPW63RE6S
5"	2.25	18.78	20.44	8.52	4.08	7.60	5.55	4.69	(2) 3/4"-10	9.25	1.18	ES600-4	101.8	LHPW13RE6S	LHPW63RE6S
6"	2.32	18.78	21.50	8.52	4.08	8.66	6.93	5.47	(2) 3/4"-10	10.62	1.18	ES600-4	117.8	MHPW13RE6S	MHPW63RE6S
8"	2.88	20.35	24.62	9.51	4.54	10.24	8.46	7.36	(2) 7/8"-9	13.00	1.18	ES950-4	170.1	NHPW13RE6S	NHPW63RE6S
10"	3.27	25.08	27.29	10.81	5.21	11.42	9.53	9.21	(4) 1"-8	15.25	1.18	ES1600-4	250.1	OHPW13RE6S	OHPW63RE6S
12"	3.62	22.44	31.00	14.17	6.89	12.80	10.75	10.83	(4) 1-1/8"-8	17.75	1.18	PS2500-4	319.0	PHPW13RE6S	PHPW63RE6S

HPW3 VALVE FEATURES

- Wafer style, ANSI Class 300, high performance butterfly valve.
- Carbon steel or 316 stainless steel body.
- 316 stainless steel disc and 17/4PH stem.
- RTFE seat.
- Pressure range: 740 PSI.

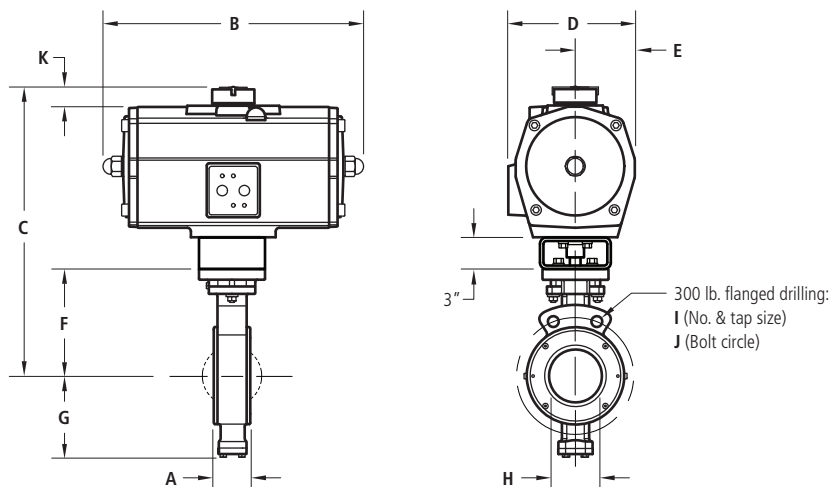
PNEUMATIC ACTUATOR FEATURES

- E Series spring return rack and pinion actuator.
- Corrosion resistant coating.
- NAMUR solenoid mounting pad, ISO 5211 mounting standard.
- Visual position indicator.
- High duty cycle, permanent lubrication.
- Temperature range: -4°F to 175°F.

HPW3EDA Series

300 lb. wafer style butterfly valve with double acting pneumatic actuator

(Actuators are sized for 300 PSI liquid media line pressure, contact factory for higher line pressure ratings)



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	C	D	E	F	G	H	I	J	K	Actuator	Wt. (lbs.)	Model No.	
														CS	316 SS
80 psig Minimum Actuator Air Supply = 8D															
2"	1.69	7.83	12.84	4.19	1.93	4.92	3.94	1.85	(2) 5/8"-11	5.00	.79	ED65	22.3	HHPW13RE8D	HHPW63RE8D
2-1/2"	1.85	7.83	13.79	4.19	1.93	5.87	4.02	2.36	(2) 3/4"-10	5.88	.79	ED65	26.3	IHPW13RE8D	IHPW63RE8D
3"	1.89	7.83	14.22	4.19	1.93	6.30	4.41	2.87	(2) 3/4"-10	6.62	.79	ED65	29.3	JHPW13RE8D	JHPW63RE8D
4"	2.13	8.70	15.45	4.60	2.12	7.01	4.88	3.74	(2) 3/4"-10	7.88	.79	ED100	38.8	KHPW13RE8D	KHPW63RE8D
5"	2.25	11.14	17.02	5.39	2.52	7.60	5.55	4.69	(2) 3/4"-10	9.25	.79	ED200	53.8	LHPW13RE8D	LHPW63RE8D
6"	2.32	11.14	18.08	5.39	2.52	8.66	6.93	5.47	(2) 3/4"-10	10.62	.79	ED200	69.8	MHPW13RE8D	MHPW63RE8D
8"	2.88	12.01	21.16	7.12	3.41	10.24	8.46	7.36	(2) 7/8"-9	13.00	.79	ED350	107.9	NHPW13RE8D	NHPW63RE8D
10"	3.27	15.24	24.26	8.52	4.08	11.42	9.53	9.21	(4) 1"-8	15.25	1.18	ED600	147.8	OHPW13RE8D	OHPW63RE8D
12"	3.62	16.69	27.18	9.51	4.54	12.80	10.75	10.83	(4) 1-1/8"-8	17.75	1.18	ED950	183.2	PHPW13RE8D	PHPW63RE8D
60 psig Minimum Actuator Air Supply = 6D															
2"	1.69	8.70	13.36	4.60	2.12	4.92	3.94	1.85	(2) 5/8"-11	5.00	.79	ED100	23.8	HHPW13RE6D	HHPW63RE6D
2-1/2"	1.85	8.70	14.31	4.60	2.12	5.87	4.02	2.36	(2) 3/4"-10	5.88	.79	ED100	27.8	IHPW13RE6D	IHPW63RE6D
3"	1.89	8.70	14.74	4.60	2.12	6.30	4.41	2.87	(2) 3/4"-10	6.62	.79	ED100	30.8	JHPW13RE6D	JHPW63RE6D
4"	2.13	11.14	16.43	5.39	2.52	7.01	4.88	3.74	(2) 3/4"-10	7.88	.79	ED200	44.8	KHPW13RE6D	KHPW63RE6D
5"	2.25	11.14	17.02	5.39	2.52	7.60	5.55	4.69	(2) 3/4"-10	9.25	.79	ED200	53.8	LHPW13RE6D	LHPW63RE6D
6"	2.32	11.14	18.08	5.39	2.52	8.66	6.93	5.47	(2) 3/4"-10	10.62	.79	ED200	69.8	MHPW13RE6D	MHPW63RE6D
8"	2.88	12.01	21.16	7.12	3.41	10.24	8.46	7.36	(2) 7/8"-9	13.00	.79	ED350	107.9	NHPW13RE6D	NHPW63RE6D
10"	3.27	15.24	24.26	8.52	4.08	11.42	9.53	9.21	(4) 1"-8	15.25	1.18	ED600	147.8	OHPW13RE6D	OHPW63RE6D
12"	3.62	16.69	27.18	9.51	4.54	12.80	10.75	10.83	(4) 1-1/8"-8	17.75	1.18	ED950	183.2	PHPW13RE6D	PHPW63RE6D

HPW3 VALVE FEATURES

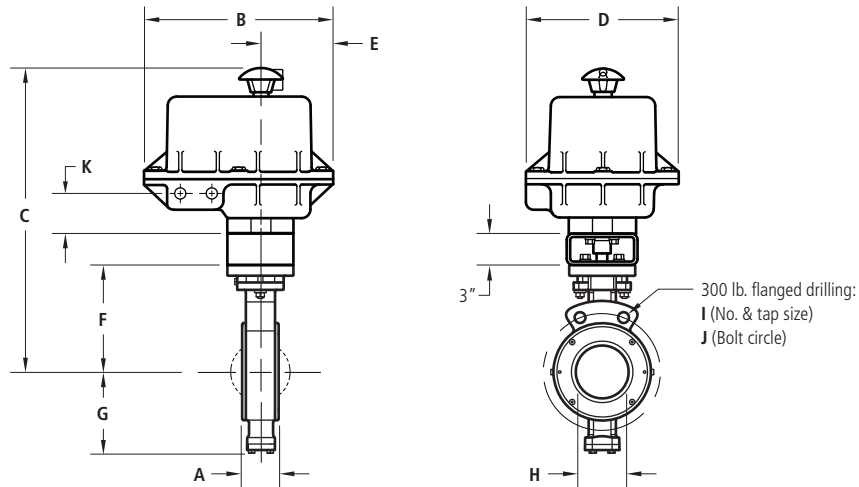
- Wafer style, ANSI Class 300, high performance butterfly valve.
- Carbon steel or 316 stainless steel body.
- 316 stainless steel disc and 17/4PH stem.
- RTFE seat.
- Pressure range: 740 PSI.

PNEUMATIC ACTUATOR FEATURES

- E Series double acting rack and pinion actuator.
- Corrosion resistant coating.
- NAMUR solenoid mounting pad, ISO 5211 mounting standard.
- Visual position indicator.
- High duty cycle, permanent lubrication.
- Temperature range: -4°F to 175°F.

HPW3B7 Series 2" to 4" Sizes

300 lb. wafer style butterfly valve with explosion proof electric actuator, NEMA 7, 120 VAC
 (Actuators are sized for 300 PSI liquid media line pressure, contact factory for higher line pressure ratings)



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	C	D	E	F	G	H	I	J	K	Actuator	Wt. (lbs.)	Model No.	
														CS	316 SS
2"	1.69	9.75	17.36	7.75	3.75	4.92	3.94	1.85	(2) 5/8"-11	5.00	2.44	BEEM510F	35.0	HHPW13RSB7	HHPW63RSB7
2-1/2"	1.85	9.75	18.31	7.75	3.75	5.87	4.02	2.36	(2) 3/4"-10	5.88	2.44	BEEM510F	39.0	IHPW13RSB7	IHPW63RSB7
3"	1.89	9.75	18.74	7.75	3.75	6.30	4.41	2.87	(2) 3/4"-10	6.62	2.44	BEEM510F	42.0	JHPW13RSB7	JHPW63RSB7
4"	2.13	9.75	19.45	7.75	3.75	7.01	4.88	3.74	(2) 3/4"-10	7.88	2.44	BEEM510F	50.0	KHPW13RSB7	KHPW63RSB7

HPW3 VALVE FEATURES

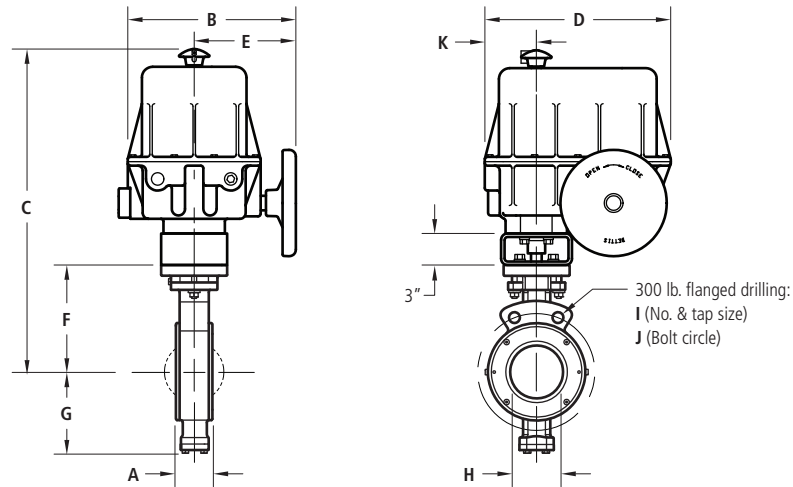
- Wafer style, ANSI Class 300, high performance butterfly valve.
- Carbon steel or 316 stainless steel body.
- 316 stainless steel disc and 17/4PH stem.
- RTFE seat.
- Pressure range: 740 PSI.

ELECTRIC ACTUATOR FEATURES

- B7 Series electric actuator.
- Actuator speed: 15 sec.
- NEMA 4, 4x, 7 and 9; CSA approved.
- Weatherproof.
- Class I Groups C and D, Div. 1.
- Class II Groups E, F and G.
- (2) 1/2" NPT conduit entries.
- Manual override.
- Visual position indicator.
- CSA certified.
- Temperature range: 0°F to 160°F.

HPW3B7 Series 5" to 12" Sizes

300 lb. wafer style butterfly valve with explosion proof electric actuator, NEMA 7, 120 VAC
 (Actuators are sized for 300 PSI liquid media line pressure, contact factory for higher line pressure ratings)



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	C	D	E	F	G	H	I	J	K	Actuator	Wt. (lbs.)	Model No.	
														CS	316 SS
5"	2.25	13.31	25.98	14.00	7.62	7.60	5.55	4.69	(2) 3/4"-10	9.25	3.88	BEEM82018C	201.0	LHPW13RSB7	LHPW63RSB7
6"	2.32	13.31	27.04	14.00	7.62	8.66	6.93	5.47	(2) 3/4"-10	10.26	3.88	BEEM82018C	217.0	MHPW13RSB7	MHPW63RSB7
8"	2.88	13.31	28.62	14.00	7.62	10.24	8.46	7.36	(2) 7/8"-9	13.00	3.88	BEEM82018C	245.0	NHPW13RSB7	NHPW63RSB7
10"	3.27	13.31	29.80	14.00	7.62	11.42	9.53	9.21	(4) 1"-8	15.25	3.88	BEEM83018C	265.0	OHPW13RSB7	OHPW63RSB7
12"	3.62	13.31	31.18	14.00	7.62	12.80	10.75	10.83	(4) 1-1/8"-8	17.50	3.88	BEEM83018C	285.0	PHPW13RSB7	PHPW63RSB7

HPW3 VALVE FEATURES

- Wafer style, ANSI Class 300, high performance butterfly valve.
- Carbon steel or 316 stainless steel body.
- 316 stainless steel disc and 17/4PH stem.
- RTFE seat.
- Pressure range: 740 PSI.

ELECTRIC ACTUATOR FEATURES

- B7 Series electric actuator.
- Actuator speed: 18 sec.
- NEMA 4, 7 and 9; CSA approved.
- Weatherproof.
- Class I Groups C and D, Div. 1.
- Class II Groups E, F and G.
- (2) 1/2" NPT conduit entries.
- Manual override.
- Visual position indicator.
- CSA certified.
- Temperature range: 0°F to 160°F.

HPL Series

High Performance Lug Style Butterfly Valve



The HPL is a high performance lug style butterfly valve that can be equipped with a manual handle or with pneumatic or electric actuators.

A full range of accessory items are available including limit switches, solenoid valves, positioners and manual override devices.

FEATURES

- ANSI Class 150 or 300.
- Complete line of accessories.

MATERIALS OF CONSTRUCTION

Seat:

RTFE.

Disc:

316 stainless steel.

Body:

Carbon steel or 316 stainless steel.

ACTUATOR CONFIGURATIONS

- Electric.
- Pneumatic (spring return).
- Pneumatic (double acting).
- Manual handle.
- Manual handle with limit switch.

PRESSURE RANGE

Class 150:

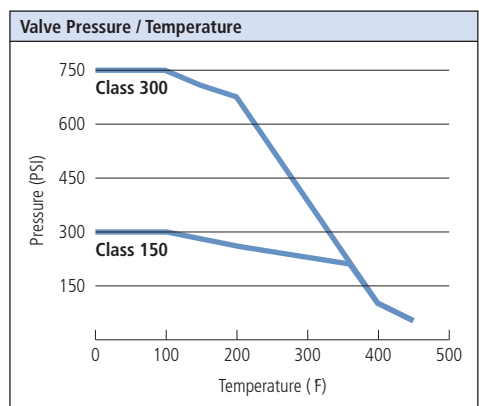
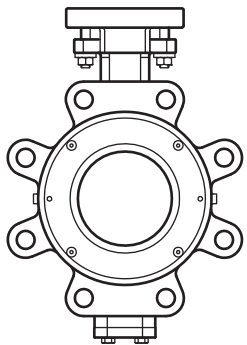
29 inHg vacuum to 285 PSI

Class 300:

29 inHg vacuum to 740 PSI

Lug Style Valve ▶

Installs between flanges. Bolts are threaded into tapped holes from each side of mounting flange.



CV FACTORS

Size	CV at Specified Disc Opening								
	10°	20°	30°	40°	50°	60°	70°	80°	90°
Class 150									
2"	2	5	12	19	32	45	65	81	88
2-1/2"	3	9	21	33	54	77	111	138	150
3"	5	14	32	50	82	116	168	209	227
4"	9	25	57	90	148	209	303	377	410
5"	16	44	104	163	266	377	548	681	740
6"	25	65	150	235	380	540	785	975	1060
8"	55	130	305	480	785	1110	1615	2005	2200
10"	85	205	475	750	1225	1735	2520	3135	3400
12"	115	280	655	1025	1680	2380	3450	4290	4700
Class 300									
2"	2	5	12	19	32	45	65	81	88
2-1/2"	3	9	21	33	54	77	111	138	150
3"	5	14	32	50	82	116	168	209	227
4"	9	25	57	90	148	209	303	377	410
5"	16	44	104	163	266	377	548	681	740
6"	24	60	139	218	357	506	735	914	995
8"	45	110	260	410	670	945	1375	1710	1900
10"	75	175	415	650	1065	1505	2185	2720	3000
12"	105	250	580	910	1485	2115	3070	3815	41000

HPL Series

High Performance butterfly valve
(Lug style)

CLASS 150 MAX. OPERATING TORQUES

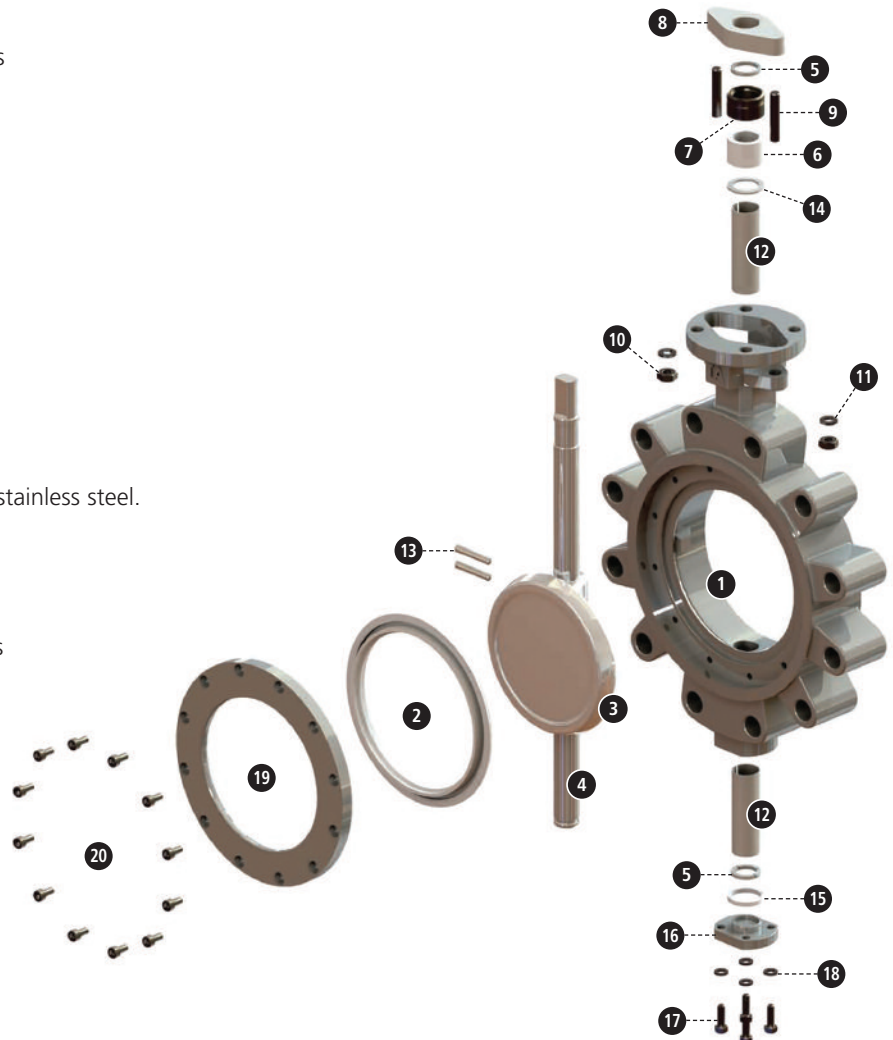
Size	Torque (in/lb) RTFE Seats			
	100 PSI	150 PSI	200 PSI	285 PSI
2"	286	312	345	371
2-1/2"	312	332	371	390
3"	325	358	390	423
4"	416	481	566	631
5"	598	715	826	943
6"	839	988	1138	1287
8"	1437	1612	1781	1957
10"	2015	2301	2587	2880
12"	2529	3166	3855	4544

CLASS 300 MAX. OPERATING TORQUES

Size	Torque (in/lb) RTFE Seats					
	150 PSI	300 PSI	400 PSI	500 PSI	600 PSI	740 PSI
2"	312	371	403	462	481	553
2-1/2"	332	399	423	481	507	585
3"	358	423	475	540	579	657
4"	481	631	715	865	930	1118
5"	715	943	1060	1287	1404	1677
6"	1037	1300	1437	1703	1828	2152
8"	1690	1970	2106	2379	2522	2854
10"	2587	3224	3569	4199	4544	5291
12"	3679	4661	5233	6383	6962	8340

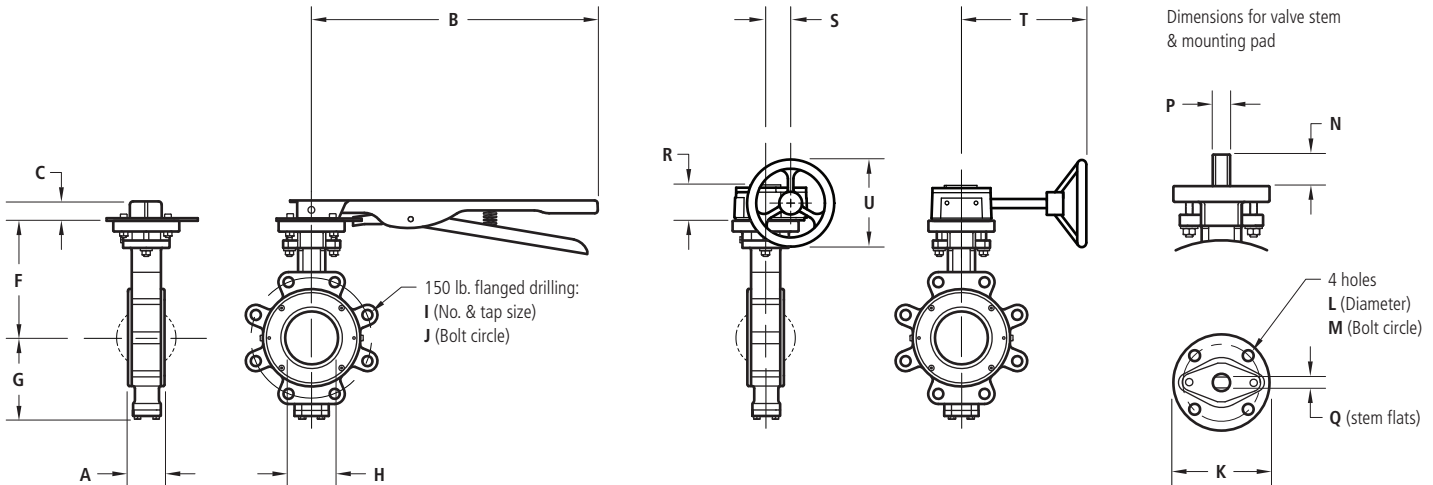
PARTS

- 1. Body:** Carbon steel (A216-WCB) or 316 stainless steel (A351-CF8M).
- 2. Seat Ring:** RTFE soft seat.
- 3. Disc:** 316 stainless steel (A351-CF8M) .
- 4. Stem:** 17/4 PH stainless steel.
- 5. Retainer Ring:** 316 stainless steel.
- 6. Packing:** PTFE graphite.
- 7. Packing Gland:** 316 stainless steel.
- 8. Gland Flange:** 316 stainless steel (A351-CF8M).
- 9. Gland Bolt:** Stainless steel.
- 10. Nut:** Stainless steel.
- 11. Spring Washer:** Stainless steel.
- 12. Bush Bearing:** RTFE/stainless steel or graphite/stainless steel.
- 13. Disc Pin:** Stainless steel.
- 14. Packing Retainer:** Stainless steel.
- 15. Cap Packing:** PTFE or graphite.
- 16. Cap:** Carbon steel (A216-WCB) or 316 stainless steel (A351-CF8M).
- 17. Cap Bolt:** Stainless steel.
- 18. Spring Washer:** Stainless steel.
- 19. Seat Retainer:** Carbon steel (A216-WCB) or 316 stainless steel (A351-CF8M).
- 20. Retainer Bolt:** Stainless steel.



HPL1M / HPL1G Series

150 lb. lug style butterfly valve with latch handle (HPL1M) or gear operator (HPL1G)
 (Manual operation)



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	C	F	G	H	I	J	Wt.* (lbs.)	Model No. (HPL1M)	
										CS	316 SS
2"	1.69	8.27	1.25	4.92	3.94	1.85	(4) 5/8"-11	4.75	10.0	HHPL11RM	HHPL61RM
2-1/2"	1.85	10.24	1.25	5.87	4.02	2.40	(4) 5/8"-11	5.50	13.0	IHPL11RM	IHPL61RM
3"	1.89	10.24	1.25	6.30	4.41	2.83	(4) 5/8"-11	6.00	14.0	JHPL11RM	JHPL61RM
4"	2.13	13.13	1.25	7.01	4.88	3.74	(8) 5/8"-11	7.50	24.0	KHPL11RM	KHPL61RM
5"	2.24	13.13	1.25	7.60	5.55	4.65	(8) 3/4"-10	8.50	32.0	LHPL11RM	LHPL61RM
6"	2.24	13.13	1.25	8.39	6.57	5.43	(8) 3/4"-10	9.50	38.0	MHPL11RM	MHPL61RM

* Weight is for valve only.

MOUNTING DIMENSIONS & SPECIFICATIONS

Size	K	L	M	N	P	Q
2"	4.02	.43	3.25	1.25	.551	.374
2-1/2"	4.02	.43	3.25	1.25	.626	.437
3"	4.02	.43	3.25	1.25	.626	.437
4"	4.02	.43	3.25	1.25	.748	.500
5"	4.02	.43	3.25	1.25	.748	.500
6"	4.02	.43	3.25	1.25	.748	.500
8"	5.98	.55	5.00	1.25	.874	.626
10"	5.98	.55	5.00	2.05	1.126	.25 x .25 key
12"	5.98	.55	5.00	2.05	1.126	.25 x .25 key

ADDITIONAL DIMENSIONS & SPECIFICATIONS

Size	R	S	T	U	Gear Operator	Model No. (HPL1G)	
						CS	316 SS
2"	2.31	1.75	8.60	6.00	24:1	HHPL11RG	HHPL61RG
2-1/2"	2.31	1.75	8.60	6.00	24:1	IHPL11RG	IHPL61RG
3"	2.31	1.75	8.60	6.00	24:1	JHPL11RG	JHPL61RG
4"	2.31	1.75	8.60	6.00	24:1	KHPL11RG	KHPL61RG
5"	2.31	1.75	8.60	6.00	24:1	LHPL11RG	LHPL61RG
6"	2.31	1.75	8.60	6.00	24:1	MHPL11RG	MHPL61RG
8"	3.00	2.81	11.19	12.38	30:1	NHPL11RG	NHPL61RG
10"	3.00	2.81	11.19	12.38	30:1	OHPL11RG	OHPL61RG
12"	3.00	2.81	11.19	12.38	30:1	PHPL11RG	PHPL61RG

HPL1 VALVE FEATURES

- Lug style, ANSI Class 150, high performance butterfly valve.
- Carbon steel or 316 stainless steel body.
- 316 stainless steel disc and 17/4PH stem.
- RTFE seat.
- Pressure range: 285 PSI.

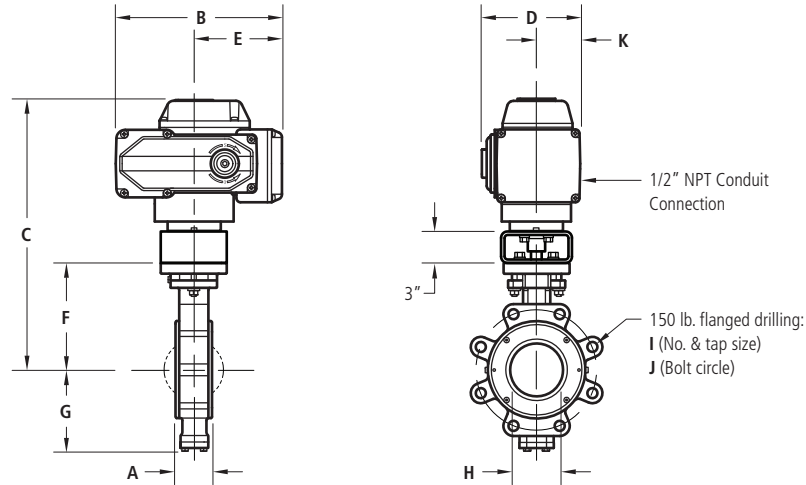
LEVER HANDLE FEATURES

- 10 position latch plate.

HPL1K4 Series

150 lb. lug style butterfly valve with electric actuator

(Actuators are sized for 150 PSI liquid media line pressure, contact factory for higher line pressure ratings)



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	C	D	E	F	G	H	I	J	K	Actuator	Wt. (lbs.)	Model No.	
														CS	316 SS
2"	1.69	8.17	14.36	4.82	4.33	4.92	3.94	1.85	(4) 5/8"-11	4.75	2.15	UNIC10	25.0	HHPL11RK4	HHPL61RK4
2-1/2"	1.85	8.17	15.31	4.82	4.33	5.87	4.02	2.40	(4) 5/8"-11	5.50	2.15	UNIC10	28.0	IHPL11RK4	IHPL61RK4
3"	1.89	8.17	15.74	4.82	4.33	6.30	4.41	2.83	(4) 5/8"-11	6.00	2.15	UNIC10	29.0	JHPL11RK4	JHPL61RK4
4"	2.13	8.17	16.45	4.82	4.33	7.01	4.88	3.74	(8) 5/8"-11	7.50	2.15	UNIC10	39.0	KHPL11RK4	KHPL61RK4
5"	2.24	8.17	17.04	4.82	4.33	7.60	5.55	4.65	(8) 3/4"-10	8.50	2.15	UNIC10	47.0	LHPL11RK4	LHPL61RK4
6"	2.24	10.10	18.67	6.16	5.25	8.39	6.57	5.43	(8) 3/4"-10	9.50	2.46	UNIC20	59.5	MHPL11RK4	MHPL61RK4
8"	2.52	10.10	19.73	6.16	5.25	9.45	7.68	7.40	(8) 3/4"-10	11.75	2.46	UNIC20	83.5	NHPL11RK4	NHPL61RK4
10"	2.83	15.00	23.24	9.53	7.85	11.03	8.66	9.25	(12) 7/8"-9	14.25	4.13	UNIC60	155.2	OHPL11RK4	OHPL61RK4
12"	3.19	15.00	24.41	9.53	7.85	12.20	10.43	10.83	(12) 7/8"-9	17.00	4.13	UNIC60	194.2	PHPL11RK4	PHPL61RK4

HPL1 VALVE FEATURES

- Lug style, ANSI Class 150, high performance butterfly valve.
- Carbon steel or 316 stainless steel body.
- 316 stainless steel disc and 17/4PH stem.
- RTFE seat.
- Pressure range: 285 PSI.

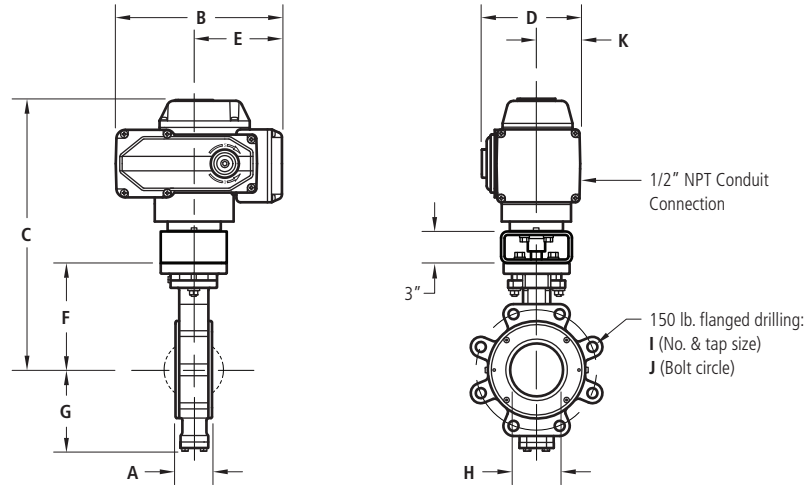
ELECTRIC ACTUATOR FEATURES

- K Series electric actuator.
- Actuator speed: 25 sec.
- Most voltages available.
- Quarter turn: 0-90° rotation.
- NEMA 4/4X certified by UL labs.
- ISO 5211 mounting standard.
- Visual position indicator.
- Self-locking drive train.
- Mounts in any direction.
- 1/2" NPT conduit connection.
- CSA-NRTL/C and CE certified.
- Temperature range: 0°F to 160°F.

HPL1K4-EP420 Series

150 lb. lug style butterfly valve with electric actuator

(Actuators are sized for 150 PSI liquid media line pressure, contact factory for higher line pressure ratings)



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	C	D	E	F	G	H	I	J	K	Actuator	Wt. (lbs.)	Model No.	
														CS	316 SS
2"	1.69	8.17	14.36	4.82	4.33	4.92	3.94	1.85	(4) 5/8"-11	4.75	2.15	NUCOM-10NS/15	25.0	HHPL11RK4-EP420	HHPL61RK4-EP420
2-1/2"	1.85	8.17	15.31	4.82	4.33	5.87	4.02	2.40	(4) 5/8"-11	5.50	2.15	NUCOM-10NS/15	28.0	IHPL11RK4-EP420	IHPL61RK4-EP420
3"	1.89	8.17	15.74	4.82	4.33	6.30	4.41	2.83	(4) 5/8"-11	6.00	2.15	NUCOM-10NS/30	29.0	JHPL11RK4-EP420	JHPL61RK4-EP420
4"	2.13	8.17	16.45	4.82	4.33	7.01	4.88	3.74	(8) 5/8"-11	7.50	2.15	NUCOM-10NS/30	39.0	KHPL11RK4-EP420	KHPL61RK4-EP420
5"	2.24	10.10	17.15	6.16	5.25	7.60	5.55	4.65	(8) 3/4"-10	8.50	2.15	NUCOM-10NM/15	55.0	LHPL11RK4-EP420	LHPL61RK4-EP420
6"	2.24	10.10	17.94	6.16	5.25	8.39	6.57	5.43	(8) 3/4"-10	9.50	2.46	NUCOM-10NM/15	61.0	MHPL11RK4-EP420	MHPL61RK4-EP420
8"	2.52	10.10	19.00	6.16	5.25	9.45	7.68	7.40	(8) 3/4"-10	11.75	2.46	NUCOM-10NM/15	85.0	NHPL11RK4-EP420	NHPL61RK4-EP420
10"	2.83	15.00	20.76	9.53	7.85	11.03	8.66	9.25	(12) 7/8"-9	14.25	4.13	NUCOM-10NL/15	153.0	OHPL11RK4-EP420	OHPL61RK4-EP420
12"	3.19	15.00	21.93	9.53	7.85	12.20	10.43	10.83	(12) 7/8"-9	17.00	4.13	NUCOM-10NL/15	192.0	PHPL11RK4-EP420	PHPL61RK4-EP420

HPL1 VALVE FEATURES

- Lug style, ANSI Class 150, high performance butterfly valve.
- Carbon steel or 316 stainless steel body.
- 316 stainless steel disc and 17/4PH stem.
- RTFE seat.
- Pressure range: 285 PSI.

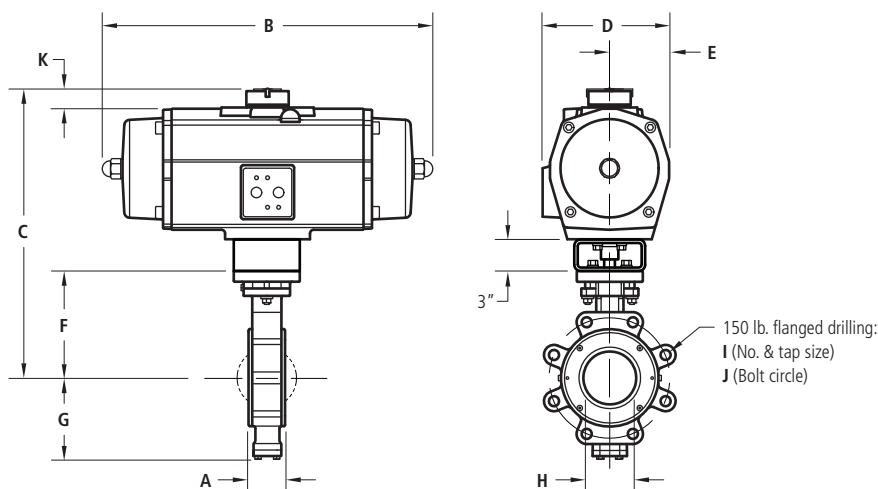
ELECTRIC ACTUATOR FEATURES

- K Series electric actuator.
- Actuator speed: 25 sec.
- Most voltages available.
- Quarter turn: 0-90° rotation.
- NEMA 4/4X certified by UL labs.
- ISO 5211 mounting standard.
- Visual position indicator.
- Self-locking drive train.
- Mounts in any direction.
- 1/2" NPT conduit connection.
- CSA-NRTL/C and CE certified.
- Temperature range: 0°F to 160°F.

HPL1ESR Series

150 lb. lug style butterfly valve with spring return pneumatic actuator

(Actuators are sized for 150 PSI liquid media line pressure, contact factory for higher line pressure ratings)



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	C	D	E	F	G	H	I	J	K	Actuator	Wt. (lbs.)	Model No.	
														CS	316 SS
80 psig Minimum Actuator Air Supply = 85															
2"	1.69	14.17	14.34	5.39	2.52	4.92	3.94	1.85	(4) 5/8"-11	4.75	.79	ES200-5	35.1	HHPL11RE8S	HHPL61RE8S
2-1/2"	1.85	14.17	15.29	5.39	2.52	5.87	4.02	2.40	(4) 5/8"-11	5.50	.79	ES200-5	38.1	IHPL11RE8S	IHPL61RE8S
3"	1.89	14.17	15.72	5.39	2.52	6.30	4.41	2.83	(4) 5/8"-11	6.00	.79	ES200-5	39.1	JHPL11RE8S	JHPL61RE8S
4"	2.13	14.17	16.43	5.39	2.52	7.01	4.88	3.74	(8) 5/8"-11	7.50	.79	ES200-5	49.1	KHPL11RE8S	KHPL61RE8S
5"	2.24	15.24	18.52	7.12	3.41	7.60	5.55	4.65	(8) 3/4"-10	8.50	.79	ES350-5	74.3	LHPL11RE8S	LHPL61RE8S
6"	2.24	15.24	19.31	7.12	3.41	8.39	6.57	5.43	(8) 3/4"-10	9.50	.79	ES350-5	80.3	MHPL11RE8S	MHPL61RE8S
8"	2.52	18.78	22.29	8.52	4.08	9.45	7.68	7.40	(8) 3/4"-10	11.75	.79	ES600-5	127.8	NHPL11RE8S	NHPL61RE8S
10"	2.83	20.35	25.41	9.51	4.54	11.03	8.86	9.25	(12) 7/8"-9	14.25	1.18	ES950-5	194.1	OHPL11RE8S	OHPL61RE8S
12"	3.19	20.35	26.58	9.51	4.54	12.20	10.43	10.83	(12) 7/8"-9	17.00	1.18	ES950-5	233.1	PHPL11RE8S	PHPL61RE8S
60 psig Minimum Actuator Air Supply = 65															
2"	1.69	14.17	14.34	5.39	2.52	4.92	3.94	1.85	(4) 5/8"-11	4.75	.79	ES200-4	35.1	HHPL11RE6S	HHPL61RE6S
2-1/2"	1.85	14.17	15.29	5.39	2.52	5.87	4.02	2.40	(4) 5/8"-11	5.50	.79	ES200-4	38.1	IHPL11RE6S	IHPL61RE6S
3"	1.89	14.17	15.72	5.39	2.52	6.30	4.41	2.83	(4) 5/8"-11	6.00	.79	ES200-4	39.1	JHPL11RE6S	JHPL61RE6S
4"	2.13	15.24	16.43	7.12	3.41	7.01	4.88	3.74	(8) 5/8"-11	7.50	.79	ES350-4	66.3	KHPL11RE6S	KHPL61RE6S
5"	2.24	15.24	18.52	7.12	3.41	7.60	5.55	4.65	(8) 3/4"-10	8.50	.79	ES350-4	74.3	LHPL11RE6S	LHPL61RE6S
6"	2.24	15.24	19.31	7.12	3.41	8.39	6.57	5.43	(8) 3/4"-10	9.50	.79	ES350-4	80.3	MHPL11RE6S	MHPL61RE6S
8"	2.52	18.78	22.29	8.52	4.08	9.45	7.68	7.40	(8) 3/4"-10	11.75	.79	ES600-4	127.8	NHPL11RE6S	NHPL61RE6S
10"	2.83	20.35	25.41	9.51	4.54	11.03	8.86	9.25	(12) 7/8"-9	14.25	1.18	ES950-4	194.1	OHPL11RE6S	OHPL61RE6S
12"	3.19	25.08	26.58	10.81	5.21	12.20	10.43	10.83	(12) 7/8"-9	17.00	1.18	ES1600-4	293.1	PHPL11RE6S	PHPL61RE6S

HPL1 VALVE FEATURES

- Lug style, ANSI Class 150, high performance butterfly valve.
- Carbon steel or 316 stainless steel body.
- 316 stainless steel disc and 17/4PH stem.
- RTFE seat.
- Pressure range: 285 PSI.

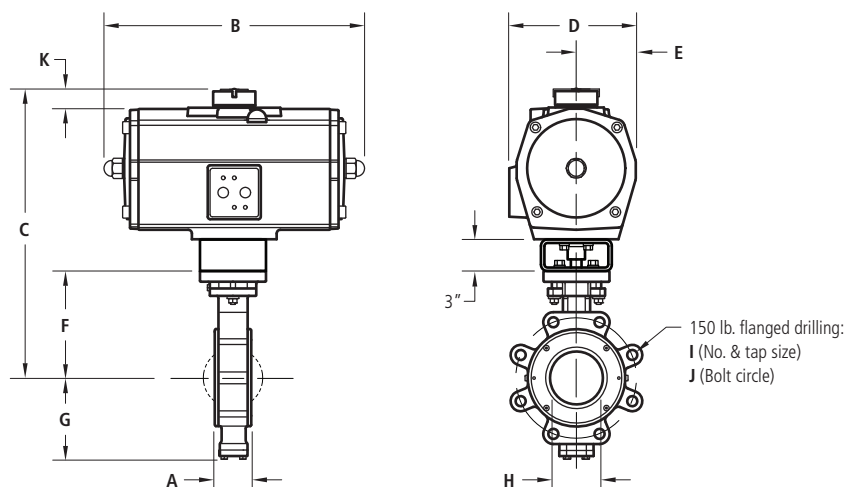
PNEUMATIC ACTUATOR FEATURES

- E Series spring return rack and pinion actuator.
- Corrosion resistant coating.
- NAMUR solenoid mounting pad, ISO 5211 mounting standard.
- Visual position indicator.
- High duty cycle, permanent lubrication.
- Temperature range: -4°F to 175°F.

HPL1EDA Series

150 lb. lug style butterfly valve with double acting pneumatic actuator

(Actuators are sized for 150 PSI liquid media line pressure, contact factory for higher line pressure ratings)



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	C	D	E	F	G	H	I	J	K	Actuator	Wt. (lbs.)	Model No.	
														CS	316 SS
80 psig Minimum Actuator Air Supply = 8D															
2"	1.69	7.09	12.37	3.78	1.70	4.92	3.94	1.85	(4) 5/8"-11	4.75	.79	ED40	19.0	HHPL11RE8D	HHPL61RE8D
2-1/2"	1.85	7.09	13.32	3.78	1.70	5.87	4.02	2.40	(4) 5/8"-11	5.50	.79	ED40	22.0	IHPL11RE8D	IHPL61RE8D
3"	1.89	7.09	14.22	4.19	1.93	6.30	4.41	2.83	(4) 5/8"-11	6.00	.79	ED65	24.3	JHPL11RE8D	JHPL61RE8D
4"	2.13	7.09	14.93	4.19	1.93	7.01	4.88	3.74	(8) 5/8"-11	7.50	.79	ED65	34.3	KHPL11RE8D	KHPL61RE8D
5"	2.24	7.83	16.04	4.60	2.12	7.60	5.55	4.65	(8) 3/4"-10	8.50	.79	ED100	43.8	LHPL11RE8D	LHPL61RE8D
6"	2.24	8.70	17.81	5.39	2.52	8.39	6.57	5.43	(8) 3/4"-10	9.50	.79	ED200	55.8	MHPL11RE8D	MHPL61RE8D
8"	2.52	11.14	18.87	5.39	2.52	9.45	7.68	7.40	(8) 3/4"-10	11.75	.79	ED200	79.8	NHPL11RE8D	NHPL61RE8D
10"	2.83	12.01	21.95	7.12	3.41	11.03	8.66	9.25	(12) 7/8"-9	14.25	.79	ED350	131.9	OHPL11RE8D	OHPL61RE8D
12"	3.19	12.01	23.12	7.12	3.41	12.20	10.43	10.83	(12) 7/8"-9	17.00	.79	ED350	170.9	PHPL11RE8D	PHPL61RE8D
60 psig Minimum Actuator Air Supply = 6D															
2"	1.69	7.09	12.84	4.19	1.93	4.92	3.94	1.85	(4) 5/8"-11	4.75	.79	ED65	20.3	HHPL11RE6D	HHPL61RE6D
2-1/2"	1.85	7.09	13.79	4.19	1.93	5.87	4.02	2.40	(4) 5/8"-11	5.50	.79	ED65	23.3	IHPL11RE6D	IHPL61RE6D
3"	1.89	7.09	14.22	4.19	1.93	6.30	4.41	2.83	(4) 5/8"-11	6.00	.79	ED65	24.3	JHPL11RE6D	JHPL61RE6D
4"	2.13	7.09	15.45	4.60	2.12	7.01	4.88	3.74	(8) 5/8"-11	7.50	.79	ED100	35.8	KHPL11RE6D	KHPL61RE6D
5"	2.24	8.70	17.02	5.39	2.52	7.60	5.55	4.65	(8) 3/4"-10	8.50	.79	ED200	49.8	LHPL11RE6D	LHPL61RE6D
6"	2.24	11.14	17.81	5.39	2.52	8.39	6.57	5.43	(8) 3/4"-10	9.50	.79	ED200	55.8	MHPL11RE6D	MHPL61RE6D
8"	2.52	11.14	20.37	7.12	3.41	9.45	7.68	7.40	(8) 3/4"-10	11.75	.79	ED350	89.9	NHPL11RE6D	NHPL61RE6D
10"	2.83	12.01	21.95	7.12	3.41	11.03	8.66	9.25	(12) 7/8"-9	14.25	.79	ED350	131.9	OHPL11RE6D	OHPL61RE6D
12"	3.19	15.24	25.04	8.52	4.08	12.20	10.43	10.83	(12) 7/8"-9	17.00	1.18	ED600	190.8	PHPL11RE6D	PHPL61RE6D

HPL1 VALVE FEATURES

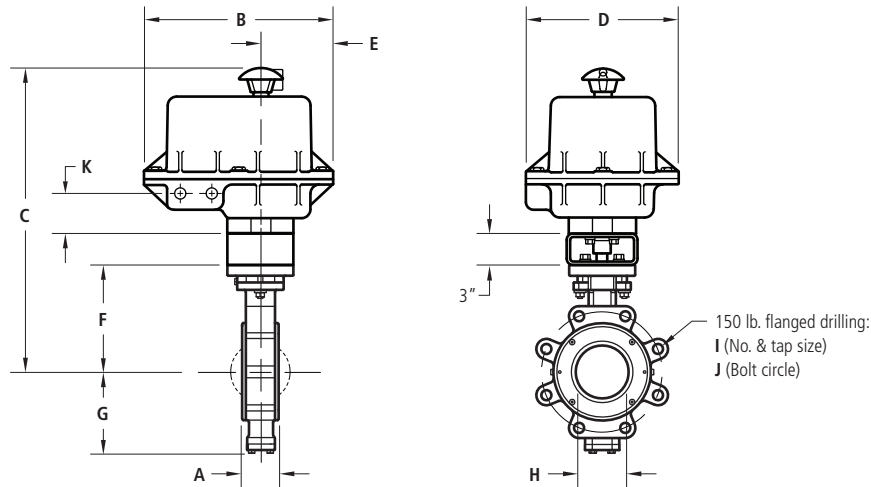
- Lug style, ANSI Class 150, high performance butterfly valve.
- Carbon steel or 316 stainless steel body.
- 316 stainless steel disc and 17/4PH stem.
- RTFE seat.
- Pressure range: 285 PSI.

PNEUMATIC ACTUATOR FEATURES

- E Series double acting rack and pinion actuator.
- Corrosion resistant coating.
- NAMUR solenoid mounting pad, ISO 5211 mounting standard.
- Visual position indicator.
- High duty cycle, permanent lubrication.
- Temperature range: -4°F to 175°F.

HPL1B7 Series 2" to 5" Sizes

150 lb. lug style butterfly valve with explosion proof electric actuator, NEMA 7, 120 VAC
 (Actuators are sized for 150 PSI liquid media line pressure, contact factory for higher line pressure ratings)



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	C	D	E	F	G	H	I	J	K	Actuator	Wt. (lbs.)	Model No.	
														CS	316 SS
2"	1.69	9.75	17.36	7.75	3.75	4.92	3.94	1.85	(4) 5/8"-11	4.75	2.44	BEEM510F	33.0	HHPL11RSB7	HHPL61RSB7
2-1/2"	1.85	9.75	18.31	7.75	3.75	5.87	4.02	2.40	(4) 5/8"-11	5.50	2.44	BEEM510F	36.0	IHPL11RSB7	IHPL61RSB7
3"	1.89	9.75	18.74	7.75	3.75	6.30	4.41	2.83	(4) 5/8"-11	6.00	2.44	BEEM510F	37.0	JHPL11RSB7	JHPL61RSB7
4"	2.13	9.75	19.45	7.75	3.75	7.01	4.88	3.74	(8) 5/8"-11	7.50	2.44	BEEM510F	47.0	KHPL11RSB7	KHPL61RSB7
5"	2.24	9.75	20.04	7.75	3.75	7.60	5.55	4.65	(8) 3/4"-10	8.50	2.44	BEEM510F	55.0	LHPL11RSB7	LHPL61RSB7

HPL1 VALVE FEATURES

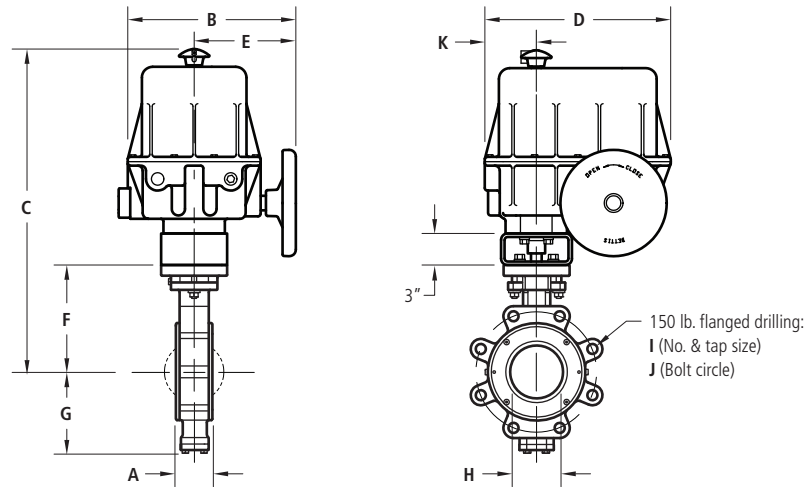
- Lug style, ANSI Class 150, high performance butterfly valve.
- Carbon steel or 316 stainless steel body.
- 316 stainless steel disc and 17/4PH stem.
- RTFE seat.
- Pressure range: 285 PSI.

ELECTRIC ACTUATOR FEATURES

- B7 Series electric actuator.
- Actuator speed: 15 sec.
- NEMA 4, 4x, 7 and 9; CSA approved.
- Weatherproof.
- Class I Groups C and D, Div. 1.
- Class II Groups E, F and G.
- (2) 1/2" NPT conduit entries.
- Manual override.
- Visual position indicator.
- CSA certified.
- Temperature range: 0°F to 160°F.

HPL1B7 Series 6" to 12" Sizes

150 lb. lug style butterfly valve with explosion proof electric actuator, NEMA 7, 120 VAC
 (Actuators are sized for 150 PSI liquid media line pressure, contact factory for higher line pressure ratings)



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	C	D	E	F	G	H	I	J	K	Actuator	Wt. (lbs.)	Model No.	
														CS	316 SS
6"	2.24	9.75	26.77	7.75	3.75	8.39	6.57	5.43	(8) 3/4"-10	9.50	2.44	BEEM82018C	203.0	MHPL11RSB7	MHPL61RSB7
8"	2.52	13.31	27.83	14.00	7.62	9.45	7.68	7.40	(8) 3/4"-10	11.75	3.88	BEEM82018C	227.0	NHPL11RSB7	NHPL61RSB7
10"	2.83	13.31	29.41	14.00	7.62	11.03	8.66	9.25	(12) 7/8"-9	14.25	3.88	BEEM82018C	269.0	OHPL11RSB7	OHPL61RSB7
12"	3.19	13.31	30.53	14.00	7.62	12.20	10.43	10.83	(12) 7/8"-9	17.00	3.88	BEEM82018C	308.0	PHPL11RSB7	PHPL61RSB7

HPL1 VALVE FEATURES

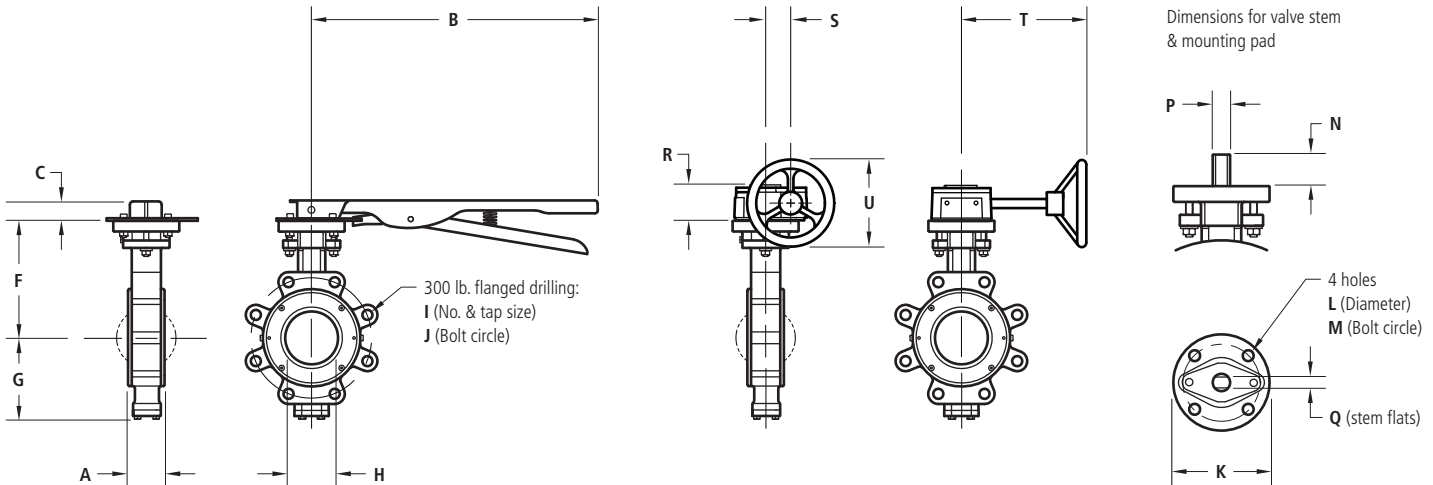
- Lug style, ANSI Class 150, high performance butterfly valve.
- Carbon steel or 316 stainless steel body.
- 316 stainless steel disc and 17/4PH stem.
- RTFE seat.
- Pressure range: 285 PSI.

ELECTRIC ACTUATOR FEATURES

- B7 Series electric actuator.
- Actuator speed: 18 sec.
- NEMA 4, 7 and 9; CSA approved.
- Weatherproof.
- Class I Groups C and D, Div. 1.
- Class II Groups E, F and G.
- (2) 1/2" NPT conduit entries.
- Manual override.
- Visual position indicator.
- CSA certified.
- Temperature range: 0°F to 160°F.

HPL3M / HPL3G Series

300 lb. lug style butterfly valve with latch handle (HPL3M) or gear operator (HPL3G)
 (Manual operation)



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	C	F	G	H	I	J	Wt.* (lbs.)	Model No. (HPL3M)	
										CS	316 SS
2"	1.69	8.27	1.25	4.92	3.94	1.85	(8) 5/8"-11	5.00	20.0	HHPL13RM	HHPL63RM
2-1/2"	1.85	10.24	1.25	5.87	4.02	2.36	(8) 3/4"-10	5.88	25.0	IHPL13RM	IHPL63RM
3"	1.89	10.24	1.25	6.30	4.41	2.87	(8) 3/4"-10	6.62	30.0	JHPL13RM	JHPL63RM
4"	2.13	13.13	1.25	7.01	4.88	3.74	(8) 3/4"-10	7.88	40.0	KHPL13RM	KHPL63RM
5"	2.25	13.13	1.25	7.60	5.55	4.69	(8) 3/4"-10	9.25	50.0	LHPL13RM	LHPL63RM
6"	2.32	13.13	1.25	8.66	6.93	5.47	(12) 3/4"-10	10.62	60.0	MHPL13RM	MHPL63RM

* Weight is for valve only.

MOUNTING DIMENSIONS & SPECIFICATIONS

Size	K	L	M	N	P	Q
2"	4.02	.43	3.25	1.26	.551	.374
2-1/2"	4.02	.43	3.25	1.26	.626	.437
3"	4.02	.43	3.25	1.26	.626	.437
4"	4.02	.43	3.25	1.26	.748	.500
5"	4.02	.43	3.25	1.26	.748	.500
6"	4.02	.43	3.25	1.26	.748	.500
8"	5.98	.55	5.00	2.01	1.126	.25 x .25 key
10"	5.98	.55	5.00	2.01	1.126	.25 x .25 key
12"	5.98	.55	5.00	2.01	1.374	.31 x .31 key

ADDITIONAL DIMENSIONS & SPECIFICATIONS

Size	R	S	T	U	Gear Operator	Model No. (HPL3G)	
						CS	316 SS
2"	2.31	1.75	8.60	6.00	24:1	HHPL13RG	HHPL63RG
2-1/2"	2.31	1.75	8.60	6.00	24:1	IHPL13RG	IHPL63RG
3"	2.31	1.75	8.60	6.00	24:1	JHPL13RG	JHPL63RG
4"	2.31	1.75	8.60	6.00	24:1	KHPL13RG	KHPL63RG
5"	2.31	1.75	8.60	6.00	24:1	LHPL13RG	LHPL63RG
6"	2.31	1.75	8.60	6.00	24:1	MHPL13RG	MHPL63RG
8"	3.00	2.81	11.19	12.38	30:1	NHPL13RG	NHPL63RG
10"	3.00	2.81	11.19	12.38	30:1	OHPL13RG	OHPL63RG
12"	3.00	2.81	11.19	12.38	30:1	PHPL13RG	PHPL63RG

HPL3 VALVE FEATURES

- Lug style, ANSI Class 300, high performance butterfly valve.
- Carbon steel or 316 stainless steel body.
- 316 stainless steel disc and 17/4PH stem.
- RTFE seat.
- Pressure range: 740 PSI.

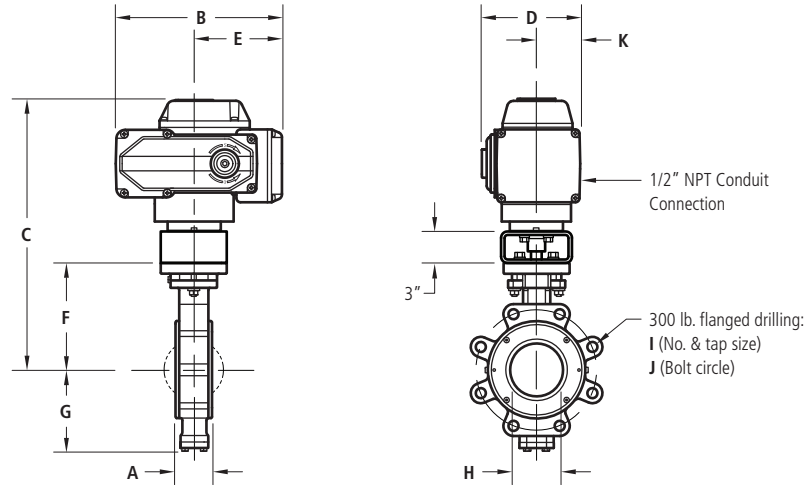
LEVER HANDLE FEATURES

- 10 position latch plate.

HPL3K4 Series

300 lb. lug style butterfly valve with electric actuator

(Actuators are sized for 300 PSI liquid media line pressure, contact factory for higher line pressure ratings)



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	C	D	E	F	G	H	I	J	K	Actuator	Wt. (lbs.)	Model No.	
														CS	316 SS
2"	1.69	8.17	14.36	4.82	4.33	4.92	3.94	1.85	(8) 5/8"-11	5.00	2.15	UNIC10	35.0	HHPL13RK4	HHPL63RK4
2-1/2"	1.85	8.17	15.31	4.82	4.33	5.87	4.02	2.36	(8) 3/4"-10	5.88	2.15	UNIC10	40.0	IHPL13RK4	IHPL63RK4
3"	1.89	8.17	15.74	4.82	4.33	6.30	4.41	2.87	(8) 3/4"-10	6.62	2.15	UNIC10	45.0	JHPL13RK4	JHPL63RK4
4"	2.13	10.10	17.29	6.16	5.25	7.01	4.88	3.74	(8) 3/4"-10	7.88	2.46	UNIC20	61.5	KHPL13RK4	KHPL63RK4
5"	2.25	10.10	17.88	6.16	5.25	7.60	5.55	4.69	(8) 3/4"-10	9.25	2.46	UNIC20	71.5	LHPL13RK4	LHPL63RK4
6"	2.32	10.10	18.94	6.16	5.25	8.66	6.93	5.47	(12) 3/4"-10	10.62	2.46	UNIC20	81.7	MHPL13RK4	MHPL63RK4
8"	2.88	15.00	22.45	9.53	7.85	10.24	8.46	7.36	(12) 7/8"-9	13.00	4.13	UNIC60	141.2	NHPL13RK4	NHPL63RK4
10"	3.27	15.00	23.63	9.53	7.85	11.42	9.53	9.21	(16) 1"-8	15.25	4.13	UNIC60	189.2	OHPL13RK4	OHPL63RK4
12"	3.62	15.00	25.01	9.53	7.85	12.80	10.75	10.83	(16) 1-1/8"-8	17.75	4.13	UNIC100	252.7	PHPL13RK4	PHPL63RK4

HPL3 VALVE FEATURES

- Lug style, ANSI Class 300, high performance butterfly valve.
- Carbon steel or 316 stainless steel body.
- 316 stainless steel disc and 17/4PH stem.
- RTFE seat.
- Pressure range: 740 PSI.

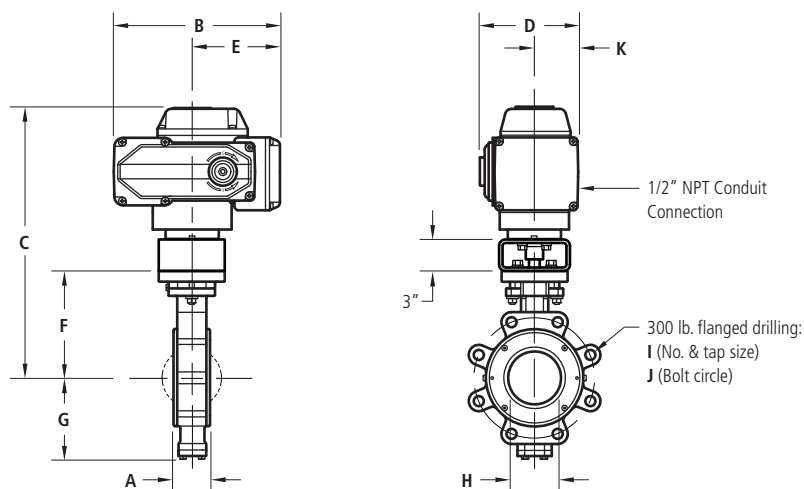
ELECTRIC ACTUATOR FEATURES

- K Series electric actuator.
- Actuator speed: 25 sec.
- Most voltages available.
- Quarter turn: 0-90° rotation.
- NEMA 4/4X certified by UL labs.
- ISO 5211 mounting standard.
- Visual position indicator.
- Self-locking drive train.
- Mounts in any direction.
- 1/2" NPT conduit connection.
- CSA-NRTL/C and CE certified.
- Temperature range: 0°F to 160°F.

HPL3K4-EP420 Series

300 lb. lug style butterfly valve with electric actuator

(Actuators are sized for 300 PSI liquid media line pressure, contact factory for higher line pressure ratings)



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	C	D	E	F	G	H	I	J	K	Actuator	Wt. (lbs.)	Model No.	
														CS	316 SS
2"	1.69	10.10	14.47	6.16	5.25	4.92	3.94	1.85	(8) 5/8"-11	5.00	2.46	NUCOM-10NM/15	43.0	HHPL13RK4-EP420	HHPL63RK4-EP420
2-1/2"	1.85	10.10	15.42	6.16	5.25	5.87	4.02	2.36	(8) 3/4"-10	5.88	2.46	NUCOM-10NM/15	48.0	IHPL13RK4-EP420	IHPL63RK4-EP420
3"	1.89	10.10	15.85	6.16	5.25	6.30	4.41	2.87	(8) 3/4"-10	6.62	2.46	NUCOM-10NM/15	53.0	JHPL13RK4-EP420	JHPL63RK4-EP420
4"	2.13	10.10	16.56	6.16	5.25	7.01	4.88	3.74	(8) 3/4"-10	7.88	2.46	NUCOM-10NM/15	63.0	KHPL13RK4-EP420	KHPL63RK4-EP420
5"	2.25	10.10	17.15	6.16	5.25	7.60	5.55	4.69	(8) 3/4"-10	9.25	2.46	NUCOM-10NM/15	73.0	LHPL13RK4-EP420	LHPL63RK4-EP420
6"	2.32	10.10	18.21	6.16	5.25	8.66	6.93	5.47	(12) 3/4"-10	10.62	2.46	NUCOM-10NM/15	83.0	MHPL13RK4-EP420	MHPL63RK4-EP420
8"	2.88	15.00	19.97	9.53	7.85	10.24	8.46	7.36	(12) 7/8"-9	13.00	4.13	NUCOM-10NL/15	139.0	NHPL13RK4-EP420	NHPL63RK4-EP420
10"	3.27	15.00	21.15	9.53	7.85	11.42	9.53	9.21	(16) 1"-8	15.25	4.13	NUCOM-10NL/15	187.0	OHPL13RK4-EP420	OHPL63RK4-EP420
12"	3.62	15.00	22.53	9.53	7.85	12.80	10.75	10.83	(16) 1-1/8"-8	17.75	4.13	NUCOM-10NL/100	249.0	PHPL13RK4-EP420	PHPL63RK4-EP420

HPL3 VALVE FEATURES

- Lug style, ANSI Class 300, high performance butterfly valve.
- Carbon steel or 316 stainless steel body.
- 316 stainless steel disc and 17/4PH stem.
- RTFE seat.
- Pressure range: 740 PSI.

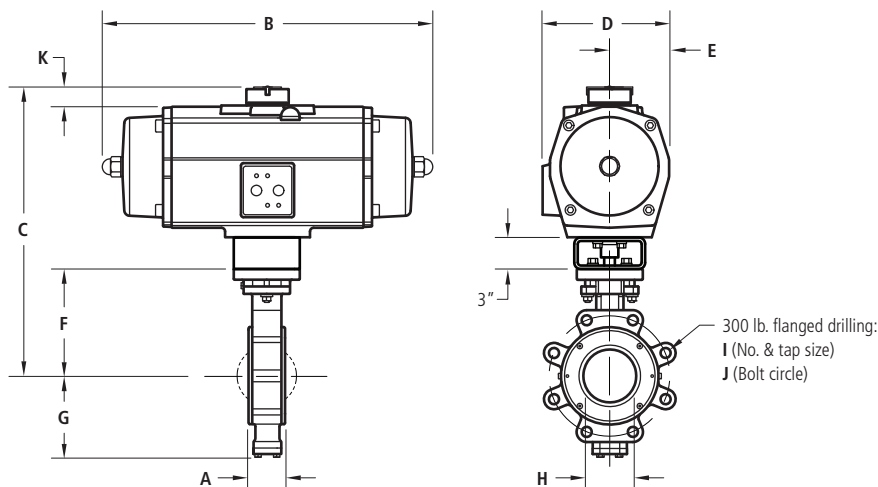
ELECTRIC ACTUATOR FEATURES

- K Series electric actuator.
- Actuator speed: 25 sec.
- Most voltages available.
- Quarter turn: 0-90° rotation.
- NEMA 4/4X certified by UL labs.
- ISO 5211 mounting standard.
- Visual position indicator.
- Self-locking drive train.
- Mounts in any direction.
- 1/2" NPT conduit connection.
- CSA-NRTL/C and CE certified.
- Temperature range: 0°F to 160°F.

HPL3ESR Series

300 lb. lug style butterfly valve with spring return pneumatic actuator

(Actuators are sized for 300 PSI liquid media line pressure, contact factory for higher line pressure ratings)



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	C	D	E	F	G	H	I	J	K	Actuator	Wt. (lbs.)	Model No.	
														CS	316 SS
80 psig Minimum Actuator Air Supply = 85															
2"	1.69	14.17	14.34	5.39	2.52	4.92	3.94	1.85	(8) 5/8"-11	5.00	.79	ES200-5	45.1	HHPL13RE8S	HHPL63RE8S
2-1/2"	1.85	14.17	15.29	5.39	2.52	5.87	4.02	2.36	(8) 3/4"-10	5.88	.79	ES200-5	50.1	IHPL13RE8S	IHPL63RE8S
3"	1.89	14.17	15.72	5.39	2.52	6.30	4.41	2.87	(8) 3/4"-10	6.62	.79	ES200-5	55.1	JHPL13RE8S	JHPL63RE8S
4"	2.13	15.24	17.93	7.12	3.41	7.01	4.88	3.74	(8) 3/4"-10	7.88	.79	ES350-5	82.3	KHPL13RE8S	KHPL63RE8S
5"	2.25	15.24	18.52	7.12	3.41	7.60	5.55	4.69	(8) 3/4"-10	9.25	.79	ES350-5	92.3	LHPL13RE8S	LHPL63RE8S
6"	2.32	18.78	21.50	8.52	4.08	8.66	6.93	5.47	(12) 3/4"-10	10.62	1.18	ES600-5	125.8	MHPL13RE8S	MHPL63RE8S
8"	2.88	20.35	24.62	9.51	4.54	10.24	8.46	7.36	(12) 7/8"-9	13.00	1.18	ES950-5	180.1	NHPL13RE8S	NHPL63RE8S
10"	3.27	25.08	27.29	10.81	5.21	11.42	9.53	9.21	(16) 1"-8	15.25	1.18	ES1600-5	288.1	OHPL13RE8S	OHPL63RE8S
12"	3.62	22.44	31.00	14.17	6.89	12.80	10.75	10.83	(16) 1-1/8"-8	17.75	1.18	PS2500-5	399.0	PHPL13RE8S	PHPL63RE8S
60 psig Minimum Actuator Air Supply = 65															
2"	1.69	14.17	14.34	5.39	2.52	4.92	3.94	1.85	(8) 5/8"-11	5.00	.79	ES200-4	45.1	HHPL13RE6S	HHPL63RE6S
2-1/2"	1.85	14.17	15.29	5.39	2.52	5.87	4.02	2.36	(8) 3/4"-10	5.88	.79	ES200-4	50.1	IHPL13RE6S	IHPL63RE6S
3"	1.89	15.24	17.22	7.12	3.41	6.30	4.41	2.87	(8) 3/4"-10	6.62	.79	ES350-4	72.3	JHPL13RE6S	JHPL63RE6S
4"	2.13	15.24	17.93	7.12	3.41	7.01	4.88	3.74	(8) 3/4"-10	7.88	.79	ES350-4	82.3	KHPL13RE6S	KHPL63RE6S
5"	2.25	18.78	20.44	8.52	4.08	7.60	5.55	4.69	(8) 3/4"-10	9.25	1.18	ES600-4	115.8	LHPL13RE6S	LHPL63RE6S
6"	2.32	18.78	21.50	8.52	4.08	8.66	6.93	5.47	(12) 3/4"-10	10.62	1.18	ES600-4	125.8	MHPL13RE6S	MHPL63RE6S
8"	2.88	20.35	24.62	9.51	4.54	10.24	8.46	7.36	(12) 7/8"-9	13.00	1.18	ES950-4	180.1	NHPL13RE6S	NHPL63RE6S
10"	3.27	25.08	27.29	10.81	5.21	11.42	9.53	9.21	(16) 1"-8	15.25	1.18	ES1600-4	288.1	OHPL13RE6S	OHPL63RE6S
12"	3.62	22.44	31.00	14.17	6.89	12.80	10.75	10.83	(16) 1-1/8"-8	17.75	1.18	PS2500-4	399.0	PHPL13RE6S	PHPL63RE6S

HPL3 VALVE FEATURES

- Lug style, ANSI Class 300, high performance butterfly valve.
- Carbon steel or 316 stainless steel body.
- 316 stainless steel disc and 17/4PH stem.
- RTFE seat.
- Pressure range: 740 PSI.

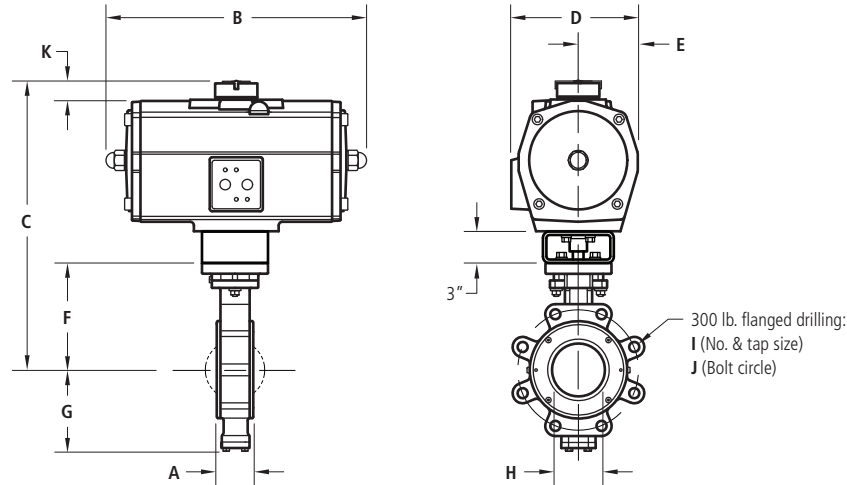
PNEUMATIC ACTUATOR FEATURES

- E Series spring return rack and pinion actuator.
- Corrosion resistant coating.
- NAMUR solenoid mounting pad, ISO 5211 mounting standard.
- Visual position indicator.
- High duty cycle, permanent lubrication.
- Temperature range: -4°F to 175°F.

HPL3EDA Series

300 lb. lug style butterfly valve with double acting pneumatic actuator

(Actuators are sized for 300 PSI liquid media line pressure, contact factory for higher line pressure ratings)



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	C	D	E	F	G	H	I	J	K	Actuator	Wt. (lbs.)	Model No.	
														CS	316 SS
80 psig Minimum Actuator Air Supply = 8D															
2"	1.69	7.83	12.84	4.19	1.93	4.92	3.94	1.85	(8) 5/8"-11	5.00	.79	ED65	30.3	HHPL13RE8D	HHPL63RE8D
2-1/2"	1.85	7.83	13.79	4.19	1.93	5.87	4.02	2.36	(8) 3/4"-10	5.88	.79	ED65	35.3	IHPL13RE8D	IHPL63RE8D
3"	1.89	7.83	14.22	4.19	1.93	6.30	4.41	2.87	(8) 3/4"-10	6.62	.79	ED65	40.3	JHPL13RE8D	JHPL63RE8D
4"	2.13	8.70	15.45	4.60	2.12	7.01	4.88	3.74	(8) 3/4"-10	7.88	.79	ED100	51.8	KHPL13RE8D	KHPL63RE8D
5"	2.25	11.14	17.02	5.39	2.52	7.60	5.55	4.69	(8) 3/4"-10	9.25	.79	ED200	67.8	LHPL13RE8D	LHPL63RE8D
6"	2.32	11.14	18.08	5.39	2.52	8.66	6.93	5.47	(12) 3/4"-10	10.62	.79	ED200	77.8	MHPL13RE8D	MHPL63RE8D
8"	2.88	12.01	21.16	7.12	3.41	10.24	8.46	7.36	(12) 7/8"-9	13.00	.79	ED350	117.9	NHPL13RE8D	NHPL63RE8D
10"	3.27	15.24	24.26	8.52	4.08	11.42	9.53	9.21	(16) 1"-8	15.25	1.18	ED600	185.8	OHPL13RE8D	OHPL63RE8D
12"	3.62	16.69	27.18	9.51	4.54	12.80	10.75	10.83	(16) 1-1/8"-8	17.75	1.18	ED950	263.2	PHPL13RE8D	PHPL63RE8D
60 psig Minimum Actuator Air Supply = 6D															
2"	1.69	8.70	13.36	4.60	2.12	4.92	3.94	1.85	(8) 5/8"-11	5.00	.79	ED100	31.8	HHPL13RE6D	HHPL63RE6D
2-1/2"	1.85	8.70	14.31	4.60	2.12	5.87	4.02	2.36	(8) 3/4"-10	5.88	.79	ED100	36.8	IHPL13RE6D	IHPL63RE6D
3"	1.89	8.70	14.74	4.60	2.12	6.30	4.41	2.87	(8) 3/4"-10	6.62	.79	ED100	41.8	JHPL13RE6D	JHPL63RE6D
4"	2.13	11.14	16.43	5.39	2.52	7.01	4.88	3.74	(8) 3/4"-10	7.88	.79	ED200	57.8	KHPL13RE6D	KHPL63RE6D
5"	2.25	11.14	17.02	5.39	2.52	7.60	5.55	4.69	(8) 3/4"-10	9.25	.79	ED200	67.8	LHPL13RE6D	LHPL63RE6D
6"	2.32	11.14	18.08	5.39	2.52	8.66	6.93	5.47	(12) 3/4"-10	10.62	.79	ED200	77.8	MHPL13RE6D	MHPL63RE6D
8"	2.88	12.01	21.16	7.12	3.41	10.24	8.46	7.36	(12) 7/8"-9	13.00	.79	ED350	117.9	NHPL13RE6D	NHPL63RE6D
10"	3.27	15.24	24.26	8.52	4.08	11.42	9.53	9.21	(16) 1"-8	15.25	1.18	ED600	185.8	OHPL13RE6D	OHPL63RE6D
12"	3.62	16.69	27.18	9.51	4.54	12.80	10.75	10.83	(16) 1-1/8"-8	17.75	1.18	ED950	263.2	PHPL13RE6D	PHPL63RE6D

HPL3 VALVE FEATURES

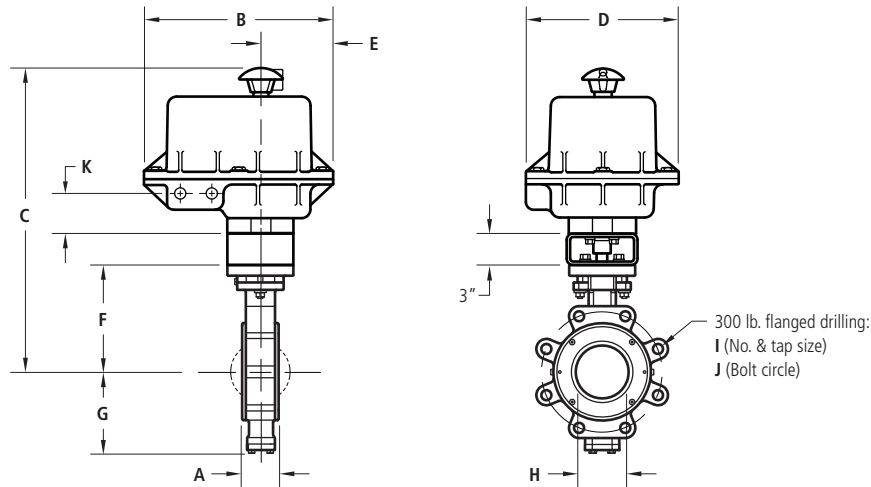
- Lug style, ANSI Class 300, high performance butterfly valve.
- Carbon steel or 316 stainless steel body.
- 316 stainless steel disc and 17/4PH stem.
- RTFE seat.
- Pressure range: 740 PSI.

PNEUMATIC ACTUATOR FEATURES

- E Series double acting rack and pinion actuator.
- Corrosion resistant coating.
- NAMUR solenoid mounting pad, ISO 5211 mounting standard.
- Visual position indicator.
- High duty cycle, permanent lubrication.
- Temperature range: -4°F to 175°F.

HPL3B7 Series 2" to 4" Sizes

300 lb. lug style butterfly valve with explosion proof electric actuator, NEMA 7, 120 VAC
 (Actuators are sized for 300 PSI liquid media line pressure, contact factory for higher line pressure ratings)



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	C	D	E	F	G	H	I	J	K	Actuator	Wt. (lbs.)	Model No.	
														CS	316 SS
2"	1.69	9.75	17.36	7.75	3.75	4.92	3.94	1.85	(8) 5/8"-11	5.00	2.44	BEEM510F	43.0	HHPL13RSB7	HHPL63RSB7
2-1/2"	1.85	9.75	18.31	7.75	3.75	5.87	4.02	2.36	(8) 3/4"-10	5.88	2.44	BEEM510F	48.0	IHPL13RSB7	IHPL63RSB7
3"	1.89	9.75	18.74	7.75	3.75	6.30	4.41	2.87	(8) 3/4"-10	6.62	2.44	BEEM510F	53.0	JHPL13RSB7	JHPL63RSB7
4"	2.13	9.75	19.45	7.75	3.75	7.01	4.88	3.74	(8) 3/4"-10	7.88	2.44	BEEM510F	63.0	KHPL13RSB7	KHPL63RSB7

HPL3 VALVE FEATURES

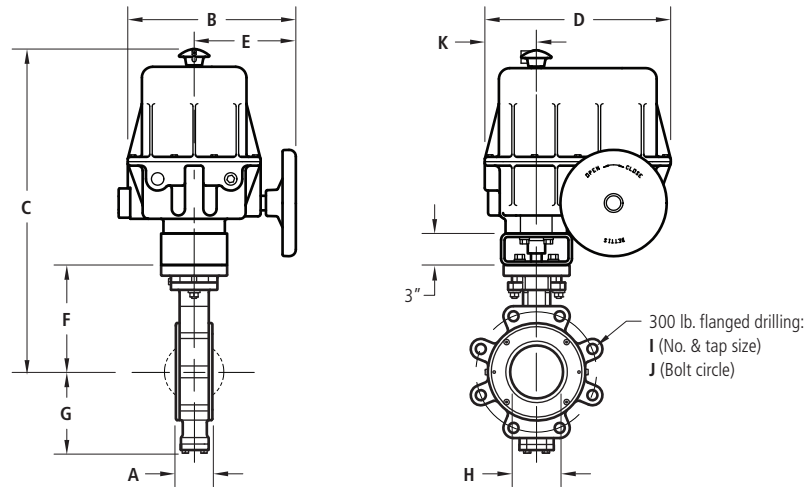
- Lug style, ANSI Class 300, high performance butterfly valve.
- Carbon steel or 316 stainless steel body.
- 316 stainless steel disc and 17/4PH stem.
- RTFE seat.
- Pressure range: 740 PSI.

ELECTRIC ACTUATOR FEATURES

- B7 Series electric actuator.
- Actuator speed: 15 sec.
- NEMA 4, 4x, 7 and 9; CSA approved.
- Weatherproof.
- Class I Groups C and D, Div. 1.
- Class II Groups E, F and G.
- (2) 1/2" NPT conduit entries.
- Manual override.
- Visual position indicator.
- CSA certified.
- Temperature range: 0°F to 160°F.

HPL3B7 Series 5" to 12" Sizes

300 lb. lug style butterfly valve with explosion proof electric actuator, NEMA 7, 120 VAC
 (Actuators are sized for 300 PSI liquid media line pressure, contact factory for higher line pressure ratings)



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	C	D	E	F	G	H	I	J	K	Actuator	Wt. (lbs.)	Model No.	
														CS	316 SS
5"	2.25	13.31	25.98	14.00	7.62	7.60	5.55	4.69	(8) 3/4"-10	9.25	3.88	BEEM82018C	215.0	LHPL13RSB7	LHPL63RSB7
6"	2.32	13.31	27.04	14.00	7.62	8.66	6.93	5.47	(12) 3/4"-10	10.26	3.88	BEEM82018C	225.0	MHPL13RSB7	MHPL63RSB7
8"	2.88	13.31	28.62	14.00	7.62	10.24	8.46	7.36	(12) 7/8"-9	13.00	3.88	BEEM82018C	255.0	NHPL13RSB7	NHPL63RSB7
10"	3.27	13.31	29.80	14.00	7.62	11.42	9.53	9.21	(16) 1"-8	15.25	3.88	BEEM83018C	303.0	OHPL13RSB7	OHPL63RSB7
12"	3.62	13.31	31.18	14.00	7.62	12.80	10.75	10.83	(16) 1-1/8"-8	17.50	3.88	BEEM83018C	365.0	PHPL13RSB7	PHPL63RSB7

HPL3 VALVE FEATURES

- Lug style, ANSI Class 300, high performance butterfly valve.
- Carbon steel or 316 stainless steel body.
- 316 stainless steel disc and 17/4PH stem.
- RTFE seat.
- Pressure range: 740 PSI.

ELECTRIC ACTUATOR FEATURES

- B7 Series electric actuator.
- Actuator speed: 18 sec.
- NEMA 4, 7 and 9; CSA approved.
- Weatherproof.
- Class I Groups C and D, Div. 1.
- Class II Groups E, F and G.
- (2) 1/2" NPT conduit entries.
- Manual override.
- Visual position indicator.
- CSA certified.
- Temperature range: 0°F to 160°F.

008 / 009 Series

PFA Lined Butterfly Valve



The 008/009 Series is a PFA lined, ductile iron, wafer style (008) and lug style (009) butterfly valve. It can be equipped with a manual handle or with electric or pneumatic actuators.

A full range of accessory items are available including limit switches, solenoid valves, positioners and manual override devices.

FEATURES

- PFA lined disc and stem.
- Actuated by electric or pneumatic actuators.
- Ideal for corrosives and vacuum services.
- Compact assembly.
- Large bearing surfaces.
- Excellent seal/barrier against leakage to atmosphere.

TYPICAL APPLICATIONS

- Clean, corrosive, or hazardous liquids and gases.
- Viscous liquids.
- Food, pharmaceutical, and dry materials.
- Vacuum service.

ACTUATOR CONFIGURATIONS

- Electric.
- Pneumatic (spring return).
- Pneumatic (double acting).
- Manual handle.
- Manual handle with limit switch.
- Gear operator.

PRESSURE RANGE

29 inHg vacuum to 150 PSI

TEMPERATURE RANGE

0°F to 400°F

MATERIALS OF CONSTRUCTION

Backup Seats and Seals:

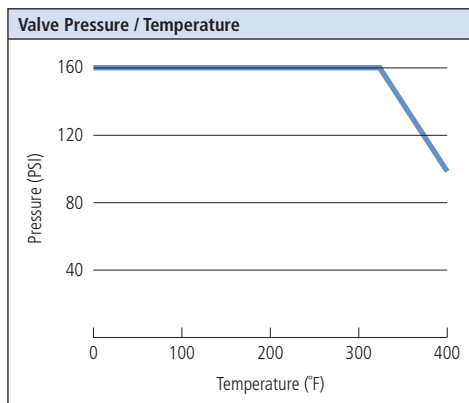
Viton®.

Body and Disc:

PFA lined ductile iron.

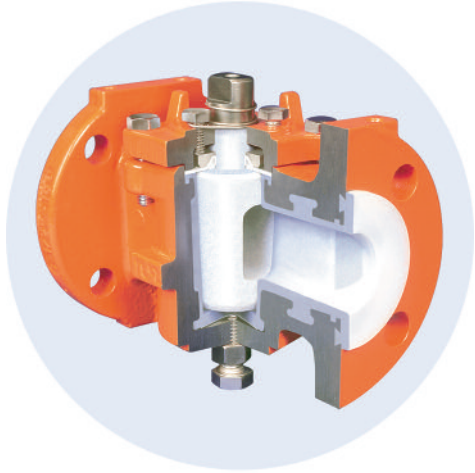
CV FACTORS

Size	CV
2"	175
3"	269
4"	562
6"	1670
8"	2574
10"	3838
12"	5674



061 Series

PFA Lined Plug Valve



The 061 is a PFA lined, ANSI Class 150 flanged plug valve. It can be equipped with a manual handle or with pneumatic or electric actuators.

A full range of accessory items are available including limit switches, solenoid valves, positioners and manual override devices.

FEATURES

- "Locked-in" PFA liner.
- Rugged construction ideal for corrosive services.
- Quick, quarter turn rotation.
- Superior long-lasting shut-off.
- One-piece integrally cast and lined plug and stem.
- Inherent blow-out proof stem.
- Self-cleaning on valve rotation.
- Bi-directional laminar flow.
- External adjustment of in-line seal.
- Inherent double stem seal.
- Self-draining in upright position.
- NO body cavities.

TYPICAL APPLICATIONS

- Clean, corrosive, or hazardous liquids and gases.
- Viscous liquids.
- Fibrous slurries.
- Food, pharmaceutical, and dry materials.

ACTUATOR CONFIGURATIONS

- Electric.
- Pneumatic (spring return).
- Pneumatic (double acting).
- Manual handle.
- Manual handle with limit switch.
- Gear operator.

PRESSURE RANGE

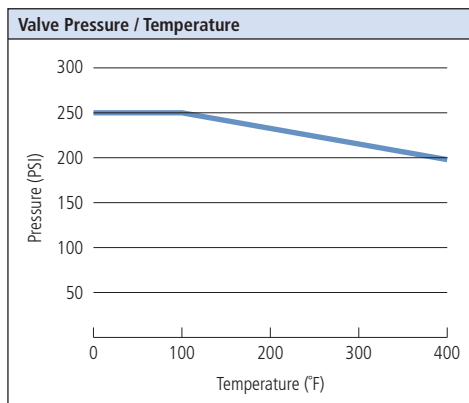
29 inHg vacuum to 250 PSI

TEMPERATURE RANGE

-4°F to 400°F

MATERIALS OF CONSTRUCTION

Body and Plug:
PFA lined ductile iron.

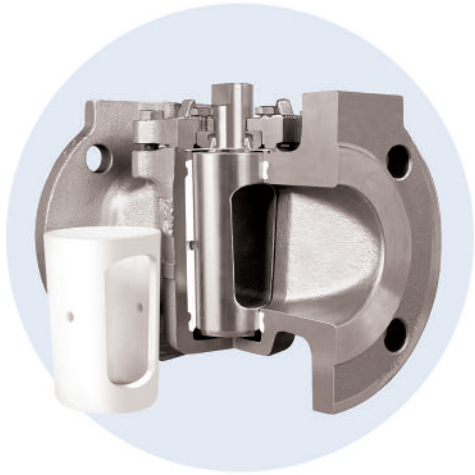


CV FACTORS

Size	CV
1/2"	9
3/4"	9
1"	43
1-1/2"	89
2"	172
3"	294
4"	548

067 Series

Non-lubricated Plug Valve



The 067 is a stainless steel (also available in other materials), ANSI Class 150 flanged plug valve. It can be equipped with a manual handle or with pneumatic or electric actuators.

A full range of accessory items are available including limit switches, solenoid valves, positioners and manual override devices.

FEATURES

- Rugged construction ideal for corrosives and vacuum services.
- Easy turning without lubrication.
- Quick, quarter turn rotation.
- Superior long-lasting shut-off.
- Integrally cast total port defining lips.
- One-piece integrally cast plug and stem.
- Inherent blow-out proof stem.
- Self-cleaning on valve rotation.
- Bi-directional laminar flow.
- External adjustment of in-line seal.
- Inherent double stem seal.
- Self-draining in upright position.
- NO body cavities.
- Complete line of accessories.

TYPICAL APPLICATIONS

- Clean, dirty, corrosive, or hazardous liquids and gases.
- Viscous liquids, scaling liquids and slurries.
- Abrasive or fibrous slurries.
- Low pressure steam.
- Food, pharmaceutical, and dry materials.
- Vacuum service.

MATERIALS OF CONSTRUCTION

Plug and Stem:
316 stainless steel.

Sleeve and Seals:
PTFE.

Body:
316 stainless steel.

ACTUATOR CONFIGURATIONS

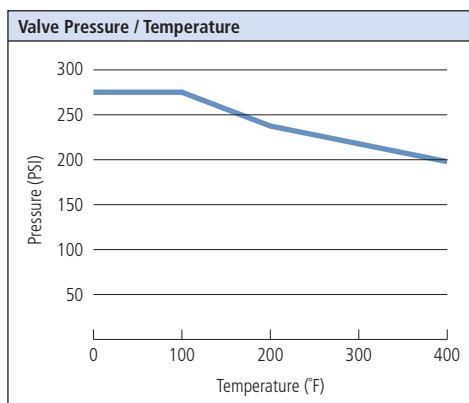
- Electric.
- Pneumatic (spring return).
- Pneumatic (double acting).
- Manual handle.
- Manual handle with limit switch.
- Gear operator.

PRESSURE RANGE

29 inHg vacuum to 275 PSI

TEMPERATURE RANGE

-40°F to 400°F



CV FACTORS

Size	CV
1/2"	9
3/4"	9
1"	43
1-1/2"	89
2"	172
3"	294
4"	548

21 Series

Stainless Steel 2-way Full Port Ball Valve



The 21 series manual ball valves are full port, 316 stainless steel, NPT threaded manual ball valves. They are equipped with a manual handle with a locking device.

FEATURES

- Silicone free.
- Full port ball drilling for unrestricted flow.
- Investment cast 2-piece stainless steel body.
- Blow-out proof stem.
- Compact assembly.
- Locking device.

TYPICAL APPLICATIONS

- Air drying equipment.
- Sterilizers and autoclaves.
- Pollution control equipment.
- Process control applications.
- Laundry equipment.
- Textile dyeing and drying.
- Bottling and dispensing equipment.
- Ink and paint dispensing.

PRESSURE RANGE

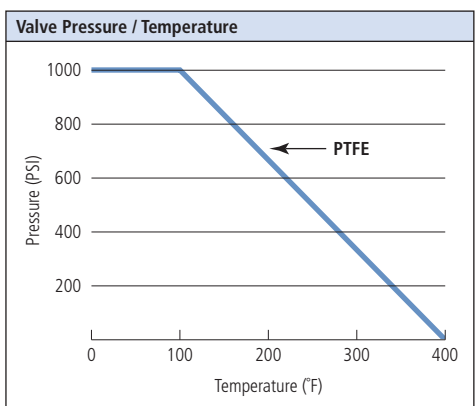
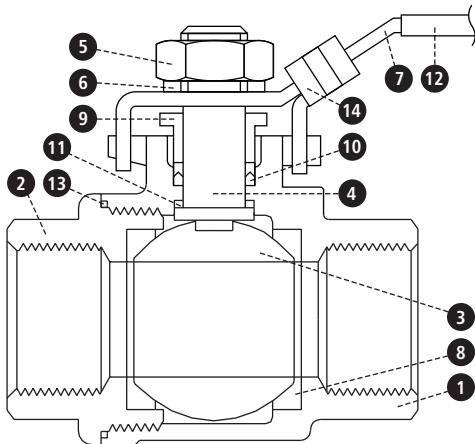
29 inHg vacuum to 1000 PSI
(up to 100°F)

TEMPERATURE RANGE

-20°F to 400°F

SPECIFICATIONS

End Connections:
NPT threaded (female).



MATERIALS OF CONSTRUCTION

Part	Qty.	Description	Standard Material
1	1	Body	ATSM A351 Gr. CF8M
2	1	End Cap	ATSM A351 Gr. CF8M
3	1	Ball	316 Stainless Steel
4	1	Stem	316 Stainless Steel
5	1	Stem Nut	304 Stainless Steel
6	1	Stem Washer	304 Stainless Steel
7	1	Handle	304 Stainless Steel
8	2	Seat	PTFE
9	1	Gland Nut	304 Stainless Steel
10	1	Stem Packing	PTFE
11	1	Thrust Washer	PTFE
12	1	Handle Sleeve	Vinyl
13	1	Joint Gasket	PTFE
14	1	Locking Device	304 Stainless Steel

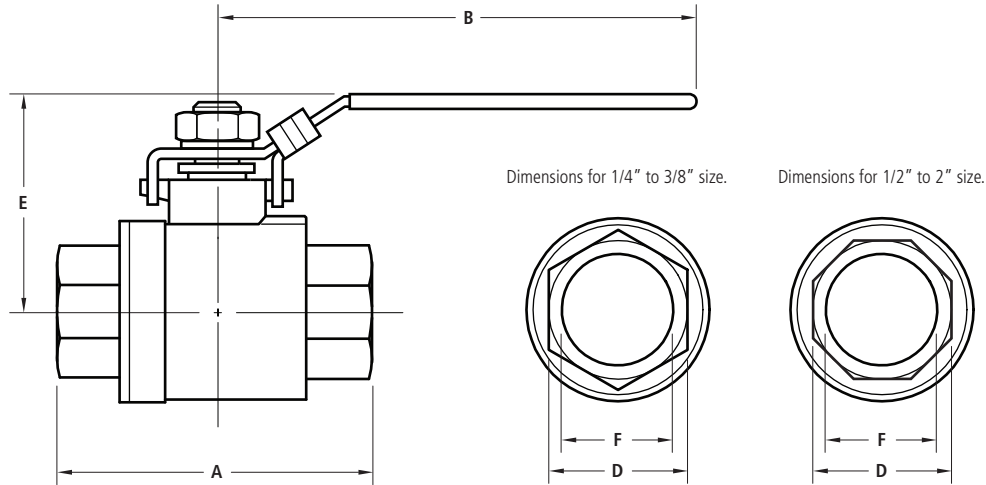
CV FACTORS

Size	CV
1/4"	13
3/8"	13
1/2"	23
3/4"	70
1"	116
1-1/4"	151
1-1/2"	197
2"	325

21 Series

Stainless Steel 2-way Full Port Ball Valve

(Threaded end connection, 2 piece body)

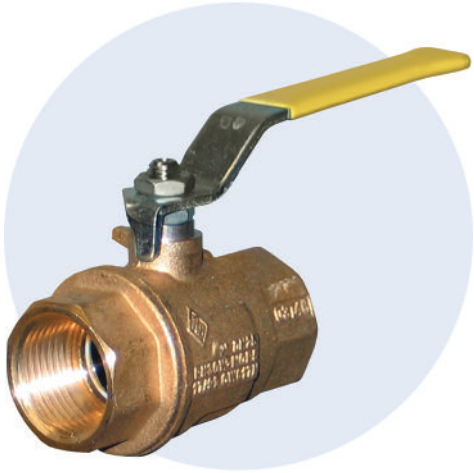


DIMENSIONS, WEIGHTS & ADDITIONAL SPECIFICATIONS

Size	DN	A	B	D	E	F	Wt. (lbs.)	Model No.
1/4"	8	1.91	3.90	.83	2.03	.45	.54	A21NPXM
3/8"	10	1.91	3.90	.83	2.03	.49	.54	B21NPXM
1/2"	15	2.20	4.13	1.06	2.09	.59	.74	C21NPXM
3/4"	20	2.56	4.13	1.28	2.20	.79	.98	D21NPXM
1"	25	2.95	4.76	1.57	2.60	.98	1.51	E21NPXM
1-1/4"	32	3.43	5.39	1.89	2.91	1.26	2.38	F21NPXM
1-1/2"	40	3.86	6.30	2.13	3.27	1.50	3.75	G21NPXM
2"	50	4.92	7.48	2.68	3.62	1.97	6.39	H21NPXM

282 Series

Brass 2-way Full Port Ball Valve



The 282 series manual ball valves are full port, brass, manual ball valves. They are available with NPT Female, NPT Male x Female, and Solder end connections. Five different manual handle configurations are offered.

FEATURES

- Full port ball drilling for unrestricted flow.
- Investment cast 2-piece brass body.
- Blow-out proof stem.
- Compact assembly.
- Locking device.
- Adjustable stem packing.
- 100% factory tested.

HANDLE CONFIGURATIONS

- Standard lever.
- Locking lever.
- Lever with extension.
- Oval (up to 2").
- Tee (up to 1").

PRESSURE RANGE

29 inHg vacuum to 600 PSI (WOG)
 29 inHg vacuum to 150 PSI (WSP)

TEMPERATURE RANGE

Up to 366°F

SPECIFICATIONS

End Connections:

NPT (female), 1/4" to 4".
 NPT (male x female), 1/4" to 1".
 Solder, 1/2" to 1/4".

HANDLE REFERENCE



Standard

Locking

Extension

Oval

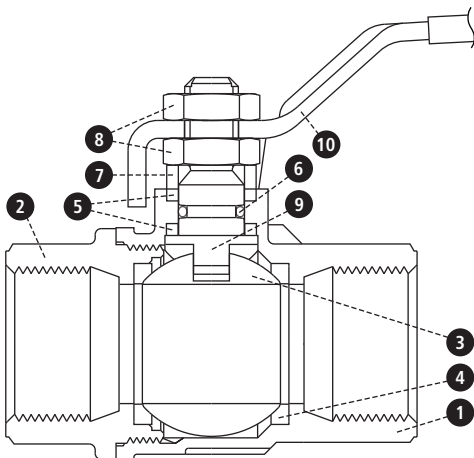
Tee

MATERIALS OF CONSTRUCTION

Part	Qty.	Description	Standard Material
1	1	Body	Brass CW 617N UNI EN 12165
2	1	End Cap	Brass CW 617N UNI EN 12165
3	1	Ball	Brass CW 617N UNI EN 12165
4	2	Seat	PTFE
5	2	Thrust Washer	PTFE
6	1	O-Ring	NBR
7	1	Packing Gland	Brass CW 614N UNI EN 12164
8	2	Nut	Steel 6S
9	1	Stem	Brass CW 614N UNI EN 12164
10	1	Handle	Fe P11 UNI EN 10111

CV FACTORS

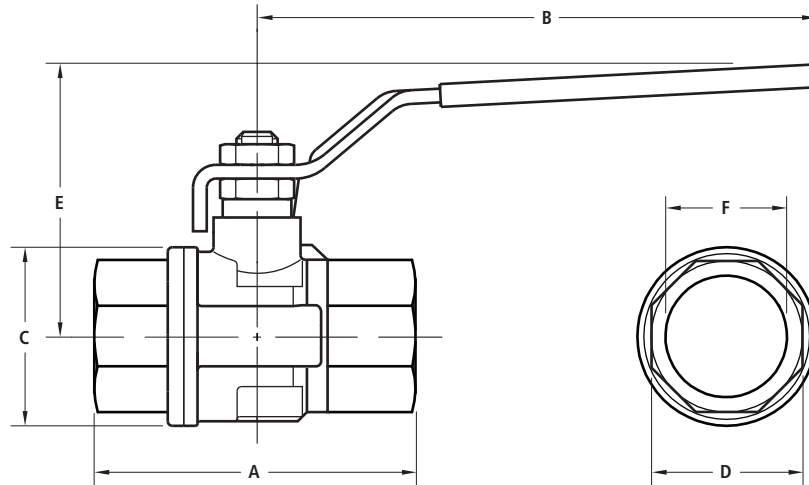
Size	CV (N)	CV (M)	CV (S)
1/4"	6.29	6.29	-
3/8"	6.99	6.99	-
1/2"	19.00	19.00	.98
3/4"	34.40	34.40	1.22
1"	50.10	50.00	1.50
1-1/4"	103.70	-	1.90
1-1/2"	268.40	-	2.12
2"	309.20	-	2.64
2-1/2"	629.00	-	3.54
3"	1018.00	-	4.13
4"	1622.00	-	5.12



282N Series

Brass 2-way Full Port Ball Valve

(Threaded end connection, female x female, 2 piece body)



DIMENSIONS, WEIGHTS & ADDITIONAL SPECIFICATIONS

Size	A	B	C	D	E	F	Wt. (lbs.)	Model No.
1/4"	2.02	3.78	.90	.78	1.65	.250	.33	A282N $\odot$
3/8"	2.02	3.78	.90	.78	1.65	.375	.30	B282N $\odot$
1/2"	2.44	3.78	1.25	.98	1.81	.500	.48	C282N $\odot$
3/4"	2.71	4.76	1.53	1.22	2.28	.750	.79	D282N $\odot$
1"	3.07	4.76	1.92	1.49	2.44	1.00	1.22	E282N $\odot$
1-1/4"	3.42	5.94	2.32	1.88	3.00	1.25	2.14	F282N $\odot$
1-1/2"	3.89	5.95	2.87	2.12	3.23	1.50	3.20	G282N $\odot$
2"	4.33	6.30	3.38	2.63	3.74	2.00	4.08	H282N $\odot$
2-1/2"	5.59	8.11	4.37	3.54	4.84	2.50	8.28	I282N $\odot$
3"	6.45	8.11	5.35	4.13	5.23	3.00	13.00	J282N $\odot$
4"	7.60	10.27	6.35	5.12	6.49	4.00	22.07	K282N $\odot$

① Handle Configuration: A = Standard lever; L = Locking lever; E = Lever with extension; O = Oval; T = Tee.

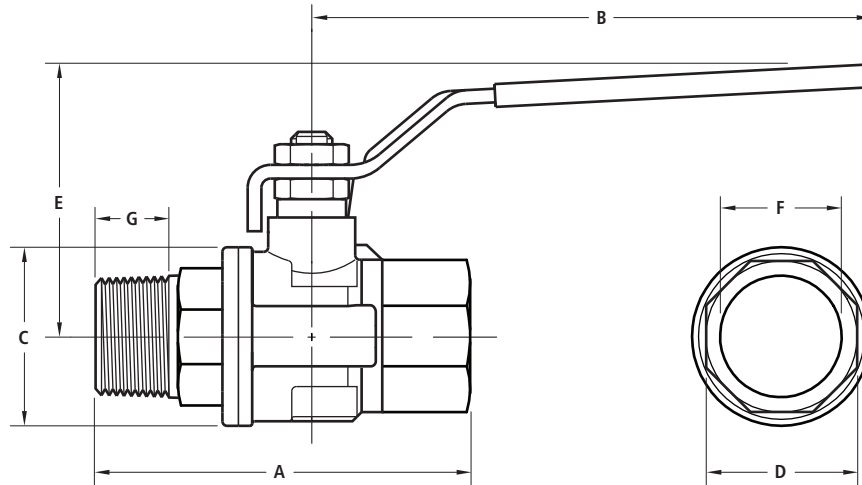
282N VALVE FEATURES

- Full port ball drilling for unrestricted flow.
- Investment cast 2-piece brass body.
- Blow-out proof stem.
- Compact assembly.
- Locking device.
- Adjustable stem packing.
- 100% factory tested.
- Temperature range: Up to 366°F.
- Pressure range: 29 inHg vacuum to 600 PSI (WOG)
29 inHg vacuum to 150 PSI (WSP).
- CSA-C/US and UL approved.
- FM and UL EPH NSF 61 approved up to 2".

282M Series

Brass 2-way Full Port Ball Valve

(Threaded end connection, male x female, 2 piece body)



DIMENSIONS, WEIGHTS & ADDITIONAL SPECIFICATIONS

Size	A	B	C	D	E	F	G	Wt. (lbs.)	Model No.
1/4"	2.30	3.78	.90	.78	1.65	.250	.40	.31	A282M⊙
3/8"	2.32	3.78	.90	.78	1.65	.375	.41	.31	B282M⊙
1/2"	2.81	3.78	1.25	.98	1.81	.500	.53	.51	C282M⊙
3/4"	3.13	4.76	1.53	1.22	2.28	.750	.55	.79	D282M⊙
1"	3.58	4.76	1.92	1.49	2.44	1.00	.68	1.26	E282M⊙

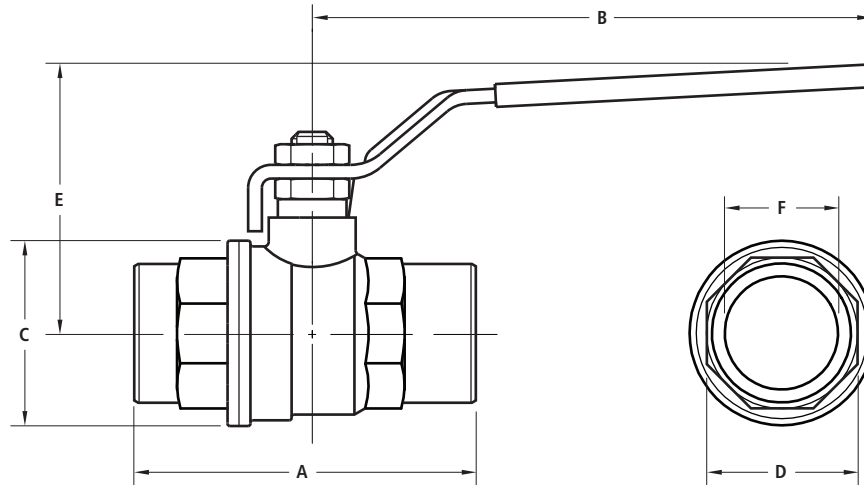
⊙ Handle Configuration: A = Standard lever; L = Locking lever; E = Lever with extension; O = Oval; T = Tee.

282M VALVE FEATURES

- Full port ball drilling for unrestricted flow.
- Investment cast 2-piece brass body.
- Blow-out proof stem.
- Compact assembly.
- Locking device.
- Adjustable stem packing.
- 100% factory tested.
- Temperature range: Up to 366°F.
- Pressure range: 29 inHg vacuum to 600 PSI (WOG)
29 inHg vacuum to 150 PSI (WSP).
- CSA-C/US, FM and UL approved.

282S Series

Brass 2-way Full Port Ball Valve
 (Solder end connection, 2 piece body)



DIMENSIONS, WEIGHTS & ADDITIONAL SPECIFICATIONS

Size	A	B	C	D	E	F	Wt. (lbs.)	Model No.
1/2"	2.58	3.78	1.30	.98	1.81	.63	.50	C282S⓪
3/4"	3.00	4.76	1.53	1.22	2.28	.88	.77	D282S⓪
1"	3.56	4.76	1.93	1.50	2.44	1.13	1.19	E282S⓪
1-1/4"	4.09	5.94	2.32	1.90	3.00	1.38	2.20	F282S⓪
1-1/2"	4.56	5.95	2.87	2.12	3.23	1.63	3.24	G282S⓪
2"	5.45	6.30	3.38	2.64	3.74	2.13	4.21	H282S⓪
2-1/2"	6.90	8.11	4.37	3.54	4.84	2.63	9.44	I282S⓪
3"	8.05	8.11	5.35	4.13	5.23	3.13	14.52	J282S⓪
4"	10.25	10.27	6.53	5.12	6.49	4.13	24.83	K282S⓪

⓪ Handle Configuration: A = Standard lever; L = Locking lever; E = Lever with extension; O = Oval; T = Tee.

282S VALVE FEATURES

- Full port ball drilling for unrestricted flow.
- Investment cast 2-piece brass body.
- Blow-out proof stem.
- Compact assembly.
- Locking device.
- Adjustable stem packing.
- 100% factory tested.
- Temperature range: Up to 366°F.
- Pressure range: 29 inHg vacuum to 600 PSI (WOG)
29 inHg vacuum to 150 PSI (WSP).
- UL EPH NSF 61 approved up to 2".

RM-150 Series

Electric Actuator, Cost Effective for OEM Applications



The Assured Automation RM-Series electric actuators offer a simple and cost effective solution for your valve automation needs. For use on quarter turn (90°) ball valves 1/4" to 1-1/2" in size. This compact industrial unit has external DIN wiring connectors eliminating the need to open the unit. Pre-wired power cords are also available.

FEATURES

- External wiring connectors.
- Compact design.
- Direct mounting to valve, ISO5211.
- Manual override.
- Thermally protected motor.
- NEMA-4 weatherproof enclosure.
- Hardened steel gearing.
- Self-lubricating shaft bearings.
- Factory sealed gearbox.
- Position Indicator.
- 2 motor travel switches and 2 auxiliary position switches.

MATERIALS OF CONSTRUCTION

Mounting/Shaft:

Zinc plated steel.

Cover:

Composite, PVC.

Base:

Diecast zinc alloy.

Base Finish:

Powder coated epoxy.

RM-150 SERIES MODEL NUMBERING

Model Number: **RM150** X X X

Voltage: _____

A = 120 VAC

B = 24 VDC

C = 220 VAC

F = 12 VDC

Power Connector: _____

1 = ISO Strain Relief PG9

2 = ISO 1/2" NPTF Conduit

3 = ISO Strain Relief PG11

4 = 6' Molded Cable

5 = 15' Molded Cable

Limit Switch Connector: _____

1 = Sub-Micro Strain Relief PG7

2 = Sub-Micro 1/2" Conduit

3 = 6' Molded Cable

4 = 15' Molded Cable

TEMPERATURE RANGE

-4°F to +150°F.

SPECIFICATIONS

Enclosure:

NEMA-4, weatherproof.

Conduit Connection:

External wiring connectors.

Duty Cycle:

AC Units - 25%;

DC Units - 100%.

Lubrication:

Permanently lubricated gear train and bearing.

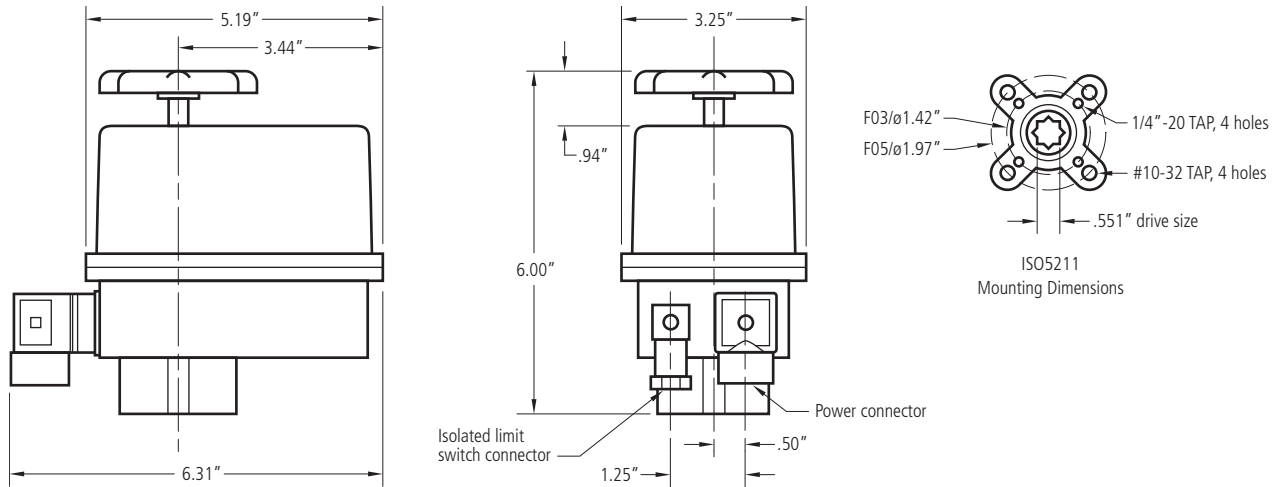
Mounting/Shaft:

ISO 5211/Female.

RM-150

Electric actuator

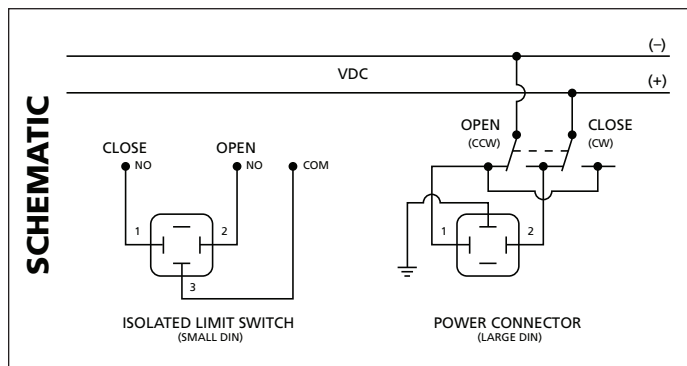
(150 in/lbs Output Torque, AC & DC)



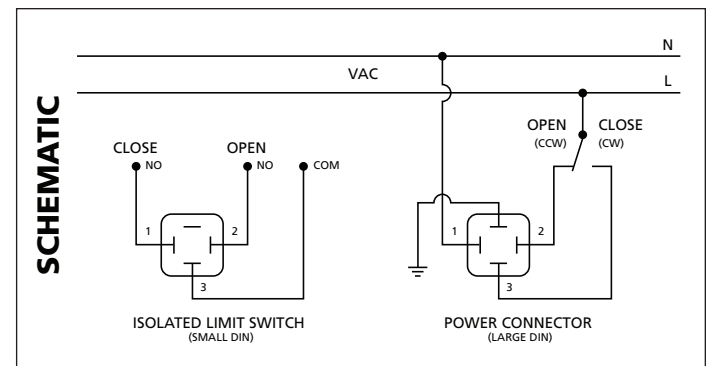
WEIGHT & ADDITIONAL SPECIFICATIONS

Voltage	Current Draw	Speed (sec.)	Break Torque	Weight (lbs.)	Model No.
120 VAC	6.0 A	6	150 in./lb.	6.0	RM150A
24 VDC	1.0 A	6	150 in./lb.	6.0	RM150B
220 VAC	0.4 A	6	150 in./lb.	6.0	RM150C
12 VDC	1.5 A	4	150 in./lb.	6.0	RM150F

WIRING DIAGRAM (VDC)



WIRING DIAGRAM (VAC)



R Series

Compact Electric Actuator



The Assured Automation R Series electric valve actuators offer a simple and cost effective solution for your valve automation needs. For use on quarter turn (90°) ball valves 1/4" to 3" and resilient seated butterfly valves (115 AC) 2" to 4".

FEATURES

- Compact design.
- Direct mounting to valve.
- Declutchable manual override.
- Thermally protected motor.
- NEMA-4, 4X weatherproof enclosure.
- Hardened steel gearing.
- Self-lubricating shaft bearings.
- Factory sealed gearbox.
- Position Indicator.

R SERIES MODEL NUMBERING

Model Number: _____

Output Torque: _____
150 = 150 in./lb.
300 = 300 in./lb.
600 = 600 in./lb.

Supply Voltage: _____
E = 24 VAC
A = 115 VAC
C = 230 VAC
F = 12 VDC
B = 24 VDC

Optional:
Accessories: _____
H = Heater
E = Extra Switch

TEMPERATURE RANGE

0°F to 150°F.

MATERIALS OF CONSTRUCTION

Mounting/Shaft:

Zinc plated steel.

Cover:

Composite, PVC.

Base:

Diecast zinc alloy.

Base Finish:

Powder coated epoxy.

SPECIFICATIONS

Enclosure:

NEMA-4, 4X, weatherproof.

Conduit Connection:

1/2" - 14 NPT.

Duty Cycle:

AC Units - 25%;

DC Units - 100%.

Lubrication:

Permanently lubricated gear train and bearing.

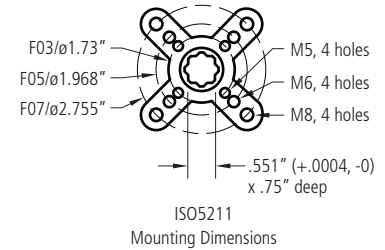
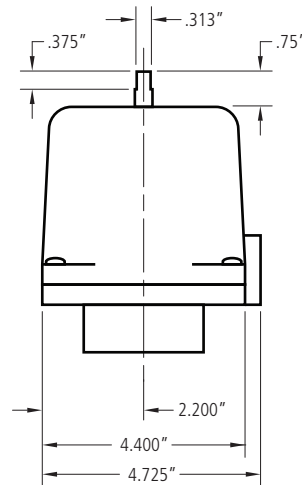
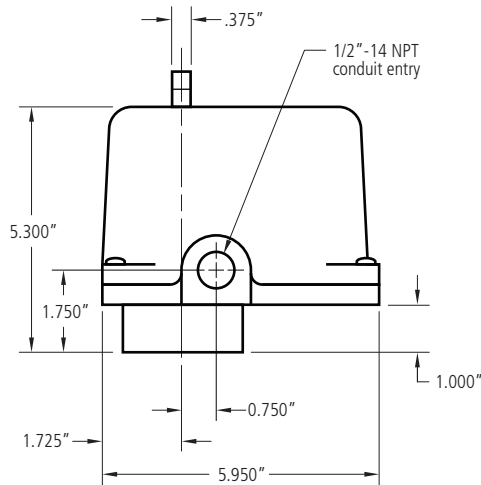
Mounting/Shaft:

ISO 5211/Female.

R Series

Compact electric actuator

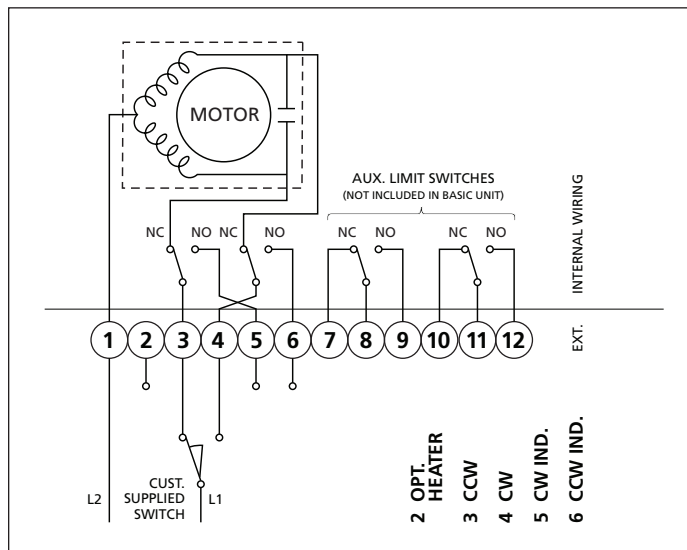
(Up to 600 in/lbs Output Torque, AC & DC)



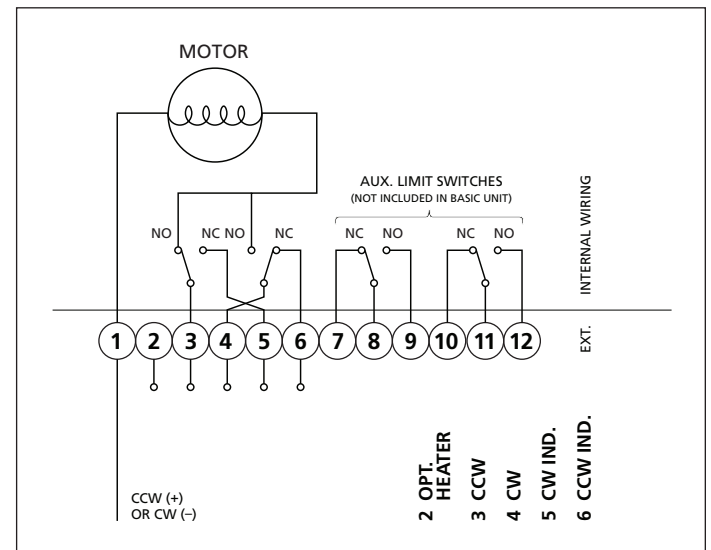
WEIGHTS & ADDITIONAL SPECIFICATIONS

Break Torque	Speed (sec)	Current Draw (amps stalled)					Weight (lbs.)	Model No.
		24 VAC	115 VAC	230 VAC	12 VDC	24 VDC		
150 in./lb.	5	7.9	.87	1.0	-	-	6.0	R-150
300 in./lb.	9	7.9	.87	1.0	1.5	0.7	6.0	R-300
600 in./lb.	16	7.9	.87	1.0	1.8	0.9	6.0	R-600

WIRING DIAGRAM (VAC, Reversible)



WIRING DIAGRAM (VDC, Reversible)



EV Series

Compact Electric Actuator



The Assured Automation EV Series electric actuators offer a simple and cost effective solution for your valve automation needs. For use on quarter turn (90°) ball valves 1/4" to 1" in size. This compact industrial unit has external wire leads eliminating the need to open the unit. Pre-wired power cords are also available.

FEATURES

- Captive cover bolt. Prevents loss when cover is removed for adjustments.
- Manual override. Stainless Steel with wrench flats for easy manual operation.
- Fine adjust cams allowing 90° to 270° operation.
- Prewired with leads.
- NEMA-4, 4X housing design for superior corrosion resistance.
- Ball bearing support providing greater reliability.
- Heavy duty PSC motor with automatically re-setting thermal protector to prevent overheating.
- High strength gears designed to AGMA standards and able to withstand stall torque conditions.
- 15 A SPDT switches.
- Permanently lubricated gear train.
- ISO 5211 mounting pad.
- 1/2" conduit entry, optional additional entry.

OPTIONAL FEATURES

- Modulating control board with digital calibration.
- Extra switches.
- 3-position setup to close the valve to a slower flow rate, allowing top off.
- Terminal strips to provide a termination point inside of the housing.
- On-board relays, feedback sensors and timers.
- Heavy duty brake.
- Position indicator.
- Heater and thermostat to prevent condensation buildup and corrosion.
- Sealed leads to prevent moisture ingress.
- Battery backup.
- Control boxes for specific and custom functions.

EV SERIES MODEL NUMBERING

Model Number: **EV** X X X

Output Torque: _____

1 = 125 in./lb.

3 = 300 in./lb.

Duty Cycle: _____

S1 = 75%

S2 = 25%

Supply Voltage: _____

V1 = 115 VAC

V3 = 230 VAC

V7 = 24 VAC

V8 = 12 VDC

V9 = 24 VDC

TEMPERATURE RANGE

0°F to 160°F.

SPECIFICATIONS

Enclosure:

NEMA-4X.

Conduit Connection:

1/2" NPT.

Duty Cycle:

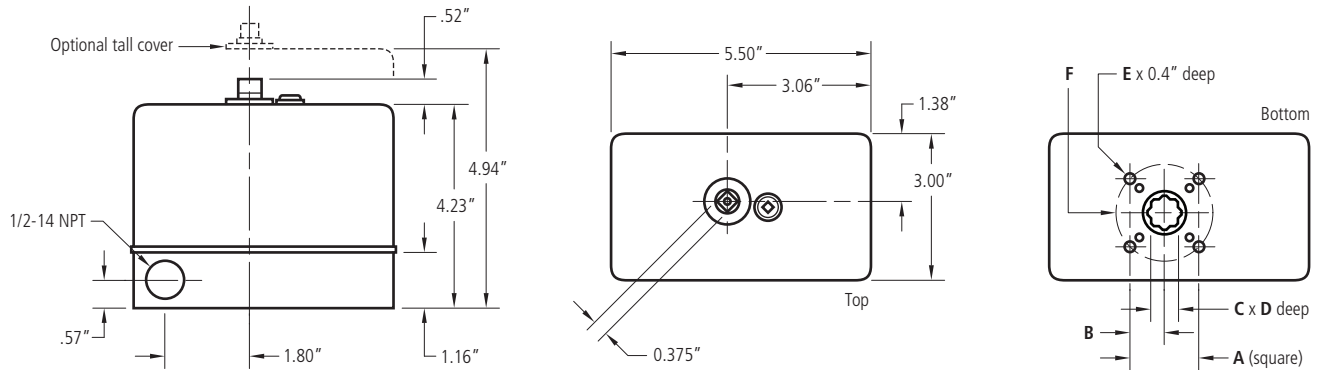
AC Units - 25% (125 in./lb.),

75% (300 in./lb.);

DC Units - 100%.

EV Series

Compact electric actuator
(NEMA-4X enclosure)



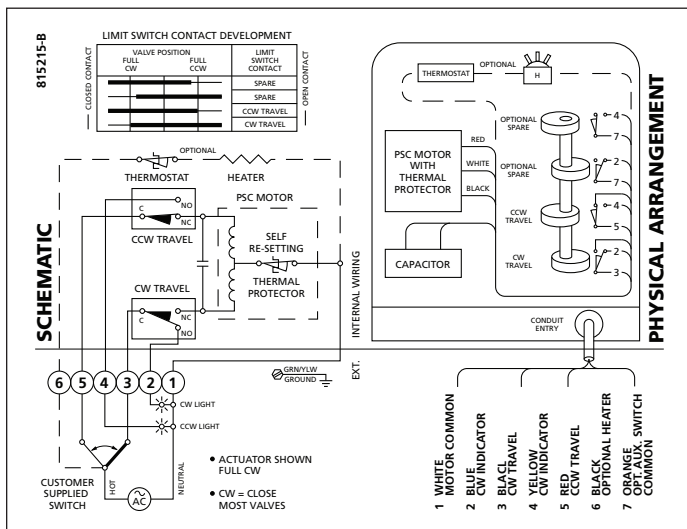
DIMENSIONS

ISO Pattern	A	B	C	D	E	F
FO3	1.002	0.501	0.354	0.630	M5TAP	1.42
FO4	1.169	0.585	0.433	0.630	M6TAP	1.65
FO5	1.392	0.696	0.551	0.630	M6TAP	1.97

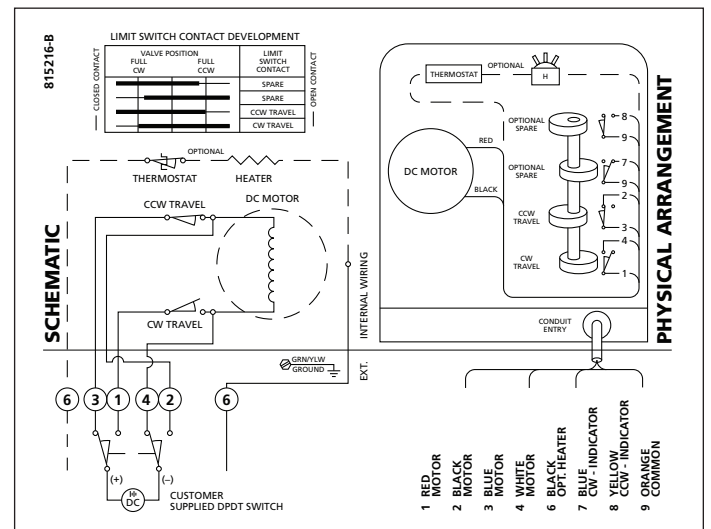
WEIGHT & SPECIFICATIONS

Output Torque	Speed (sec)					Current Draw (run / full load)					Weight (lbs.)
	24 VAC	115 VAC	230 VAC	12 VDC	24 VDC	24 VAC	115 VAC	230 VAC	12 VDC	24 VDC	
125 in./lb.	3	3	3	3	3	1.6 / 4	0.4 / 0.6	0.3 / 0.5	1.6 / 4	0.9 / 4	5.0
300 in./lb.	6	7	7	6	6	1.6 / 4	0.4 / 0.6	0.3 / 0.5	1.6 / 4	0.9 / 4	5.0

WIRING DIAGRAM (VAC, Reversible)



WIRING DIAGRAM (VDC, Reversible)



I4 Series

Electric Actuator



The I4 Series is a compact industrial duty quarter turn electric actuator specifically designed for ball and butterfly valves. The I4 Series incorporates a self locking gear train, IP65 weatherproof enclosure, visual position indicator, manual override and ISO 5211 mounting pad. The actuator is available in 115 VAC and 24 VDC/VAC with a complete line of accessories available.

FEATURES

- 90° travel (adjustable between 20° and 95°).
- Working torques of 300 in./lbs. to 2100 in./lbs.
- Duty cycle of 50%.
- Weatherproof enclosure to IP65 standard.
- IP65 standard connectors.
- Motor Class F insulation to 311°F.
- Ball bearing construction.
- Manual override.
- Visual position indicator.
- Space heater is standard.
- Extra 2 SPDT limit switches.
- Electrical connection: cable gland.

OPTIONAL FEATURES

- Modulating positioner.
- 4 aux. limit switches.
- Speed control.
- Potentiometer feedback.

I4 SERIES MODEL NUMBERING

Model Number: I4 X X X X

Output Torque: _____
0300 = 300 in./lbs.
0600 = 619 in./lbs.
1100 = 1150 in./lbs.
2100 = 2124 in./lbs.

Voltage: _____
A = 115 VAC
B = 24 VAC/VDC

Connectors (cable gland): _____
S = Straight (standard)
N = 90°

Optional:

Accessories: _____
EP = 4-20 mA DC Positioner
XLS = Extra Limit Switches
POT = Feedback Potentiometer
SC = Speed control

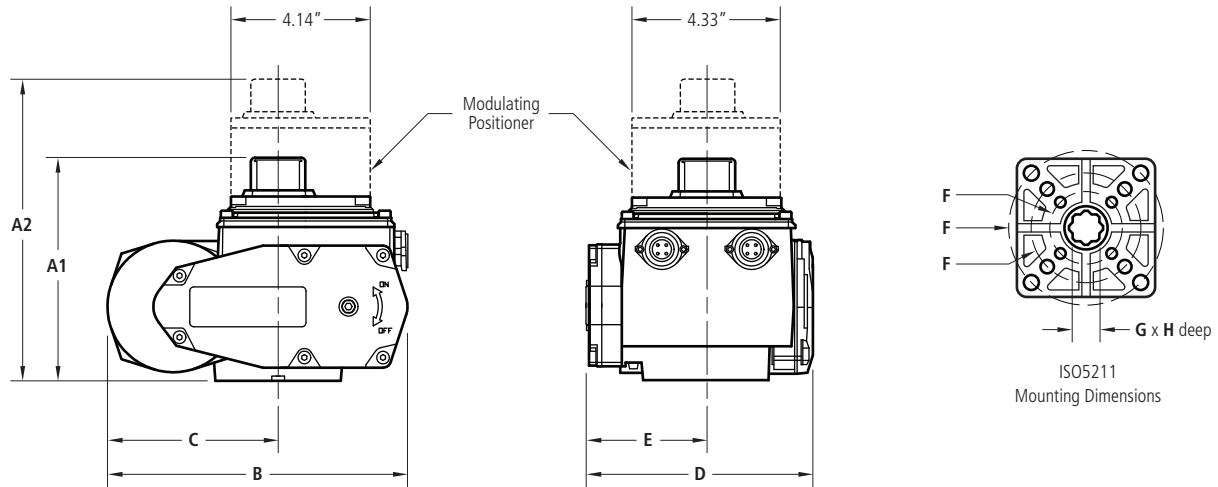
TEMPERATURE RANGE

0°F to 140°F

I4 Series

Electric Actuator

(115 VAC and 24 VAC/VDC)

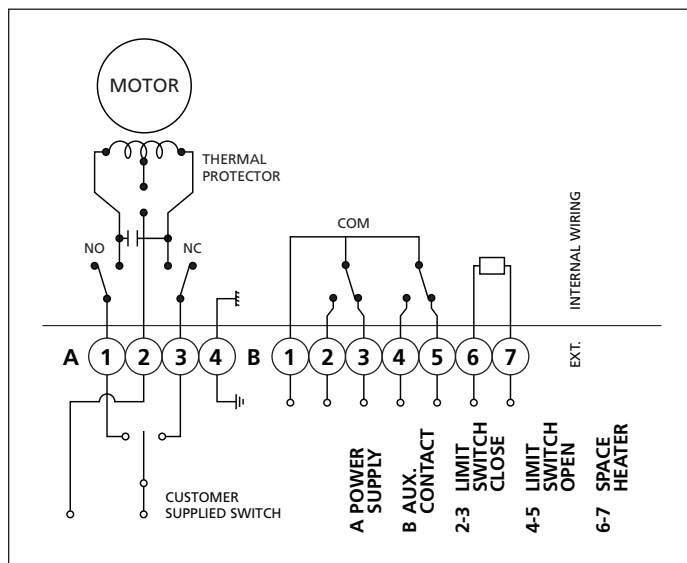


WEIGHTS & ADDITIONAL SPECIFICATIONS

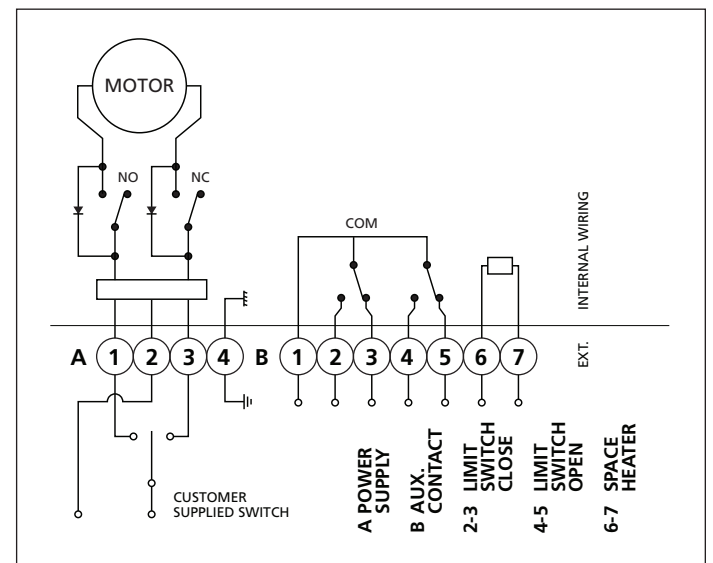
Output Torque	A1	A2	B	C	D	E	F	G	H	Speed (sec)		Current Draw (amps)		Weight (lbs.)		Model No.
										115 VAC	24 VAC/VDC	115 VAC	24 VAC/VDC	On/Off	Modulating	
300 in./lb.	5.40	8.72	7.56	3.58	5.20	2.21	F03/F05/F07	14	15.5	10	15	1.0	2.0	7.9	9.7	I40300⓪⓪
619 in./lb.	5.40	8.72	7.56	3.58	5.36	2.37	F05/F07	14	15.5	10	15	1.0	3.5	7.9	9.7	I40600⓪⓪
1150 in./lb.	6.17	9.53	8.73	4.75	6.30	3.31	F05/F07/F10	17	19.0	10	15	1.5	3.0	7.9	18.3	I41100⓪⓪
2124 in./lb.	6.17	9.53	8.73	4.75	6.30	3.31	F07/F10	22	24.0	15	20	2.0	5.0	16.5	18.3	I42100⓪⓪

⓪ Voltage: **A** = 115 VAC; **B** = 24 VAC/VDC. ⓪ Connectors: **S** = Straight; **N** = 90°.

WIRING DIAGRAM (115 VAC)



WIRING DIAGRAM (24 VAC/VDC)



K4 Series

Electric Actuator



The K4 Series is a compact industrial duty quarter turn electric actuator specifically designed for ball and butterfly valves. The K4 Series incorporates a self locking gear train, NEMA-4/4X weatherproof enclosure, visual position indicator, manual override and ISO 5211 mounting pad. The actuator is available in 115 VAC and 24 VDC with a complete line of accessories available.

FEATURES

- 90° travel (adjustable between 20° and 95°).
- Working torques of 300 in./lbs. to 2100 in./lbs.
- Duty cycle of 75% to 100%.
- Weatherproof enclosure to NEMA-4/4X standard (certified by UL Labs).
- Internal wire terminals.
- Built in auto reset.
- Motor Class F insulation to 311°F.
- Ball bearing construction.
- Manual override.
- Visual position indicator.
- Maximum working noise of 73 dB.
- Full line of accessories including positioners, extra limit switches, potentiometer feedback and speed control.

OPTIONAL FEATURES (NUCOM SERIES)

- 4-20 mA modulating positioner.

TEMPERATURE RANGE

0°F to 131°F

SPECIFICATIONS

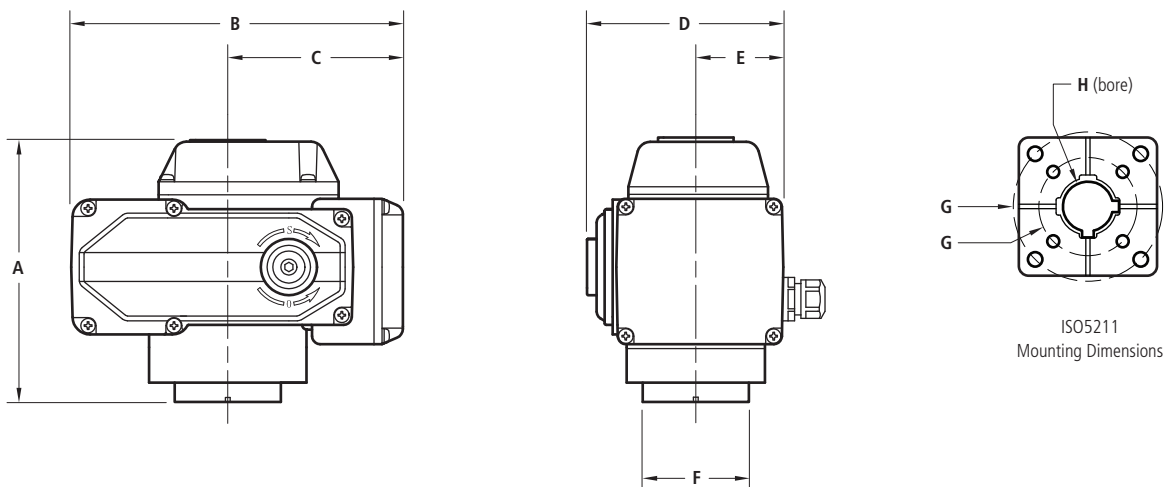
Duty Cycle:

100% (75% for UNIC60)

K4 Series

Electric Actuator

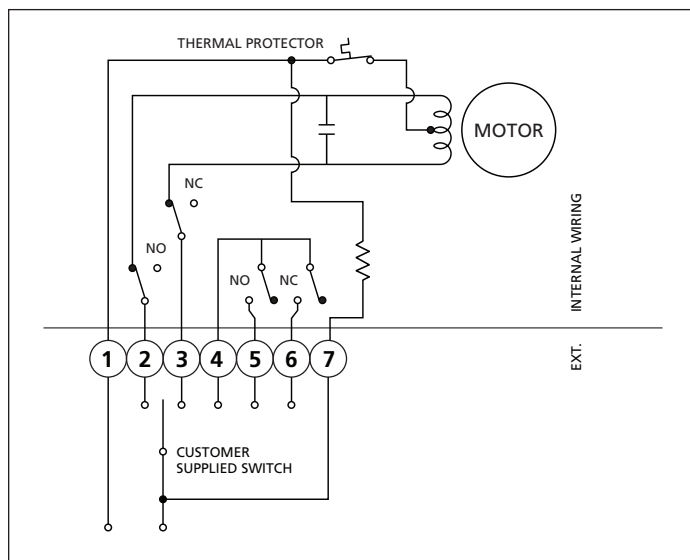
(115 VAC and 24 VDC)



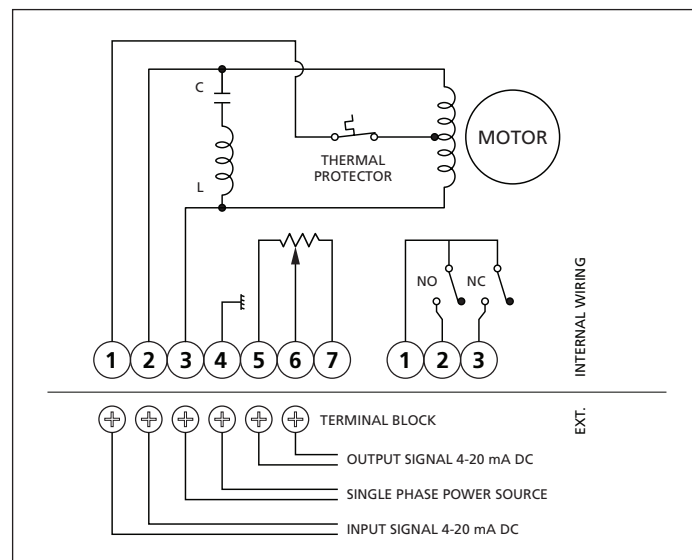
WEIGHTS & ADDITIONAL SPECIFICATIONS

Output Torque	A	B	C	D	E	F	G	H	Speed (sec)	Current Draw (amps)	Weight (lbs.)	Model No.
On/Off												
868 in./lb.	6.44	8.17	4.33	4.82	2.15	2.60	F05/F07	1.103	25	0.60/0.65	9.9	UNIC10
1763 in./lb.	7.28	10.10	5.25	6.16	2.46	3.82	F07/F10	1.418	25	1.0/1.1	16.5	UNIC20
5208 in./lb.	9.21	15.00	7.86	9.53	4.13	5.31	F10/F12	2.205	25	1.7/1.9	46.2	UNIC60
Modulating												
608 in./lb.	6.44	8.17	4.33	4.82	1.62	2.60	F05/F07	1.103	30	0.60	9.9	NUCOM10NS
2430 in./lb.	6.55	10.10	5.25	6.16	2.46	3.82	F10/F12	2.205	30	1.6	18.0	NUCOM10NM

WIRING DIAGRAM (ON/OFF)



WIRING DIAGRAM (MODULATING)



CB Series

Weatherproof Control Box



CB Series weatherproof control boxes allow the user to operate Assured Automation electric or pneumatic actuators from a remote location (pneumatic actuators require a solenoid). These compact control boxes are available with lamp indication for feedback confirmation of actuator/valve position (limit switch required).

FEATURES

- Compact design.
- High strength, chemical resistant, weatherproof enclosure.
- Long life lamps for 100,000 hours continuous use.
- Protected LED modules.

SPECIFICATIONS

Enclosure Ratings:

NEMA-1, 4X, 12, 13.

Switches:

Double insulated black plastic; UL Listed, CSA CE Certified.

Lamps:

110 VAC LED with built in resistor.

Contact Rating:

10 A at 125/250 VAC.

CB SERIES

MODEL NUMBERING

Model Number: **CB XX-XX**

Switch: _____

S1 = Open/Stop/Close*

S2 = Close/Stop/Open*

S3 = Open/Close

S4 = Close/Open

S5 = Stop/Start

S6 = Start/Stop

S7 = Off/On

S8 = On/Off

XX = No Switch

Lights: _____

OC = Open Light, Close Light

CO = Close Light, Open Light

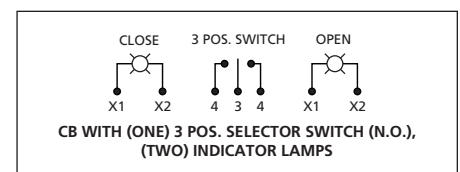
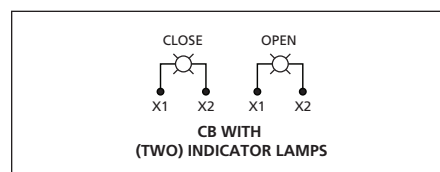
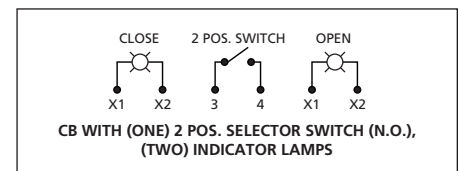
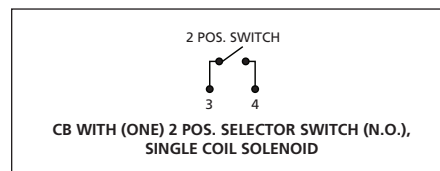
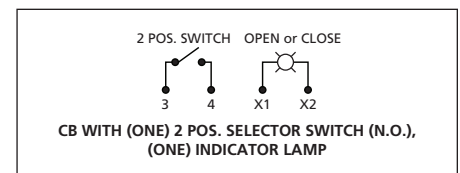
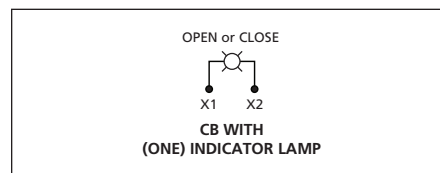
OX = Open Light

XC = Close Light

XX = No Lights

* Stop position for manual override or isolating unit.

WIRING DIAGRAMS



O Series

Pneumatic Actuator



The Assured Automation O Series pneumatic actuators offer a simple and cost effective solution for your valve automation needs. For use on quarter turn (90°) ball valves, plug valves, dampers, and resilient seated butterfly valves.

FEATURES

- High duty cycle life, up to 1,000,000 cycles.
- Double acting and spring return models.
- Direct mounting to ball and butterfly valves: DIN/ISO 5211, DIN 3337 (F03 to F16).
- NAMUR solenoid and limit switch mounting.
- Diamond and square output drive on all units.
- Permanent lubrication.
- Corrosion resistant coating.
- Visual position indicator (Open/Closed).

MATERIALS OF CONSTRUCTION

Housing:

Aluminum alloy.

End Caps:

Painted aluminum alloy.

ACCESSORIES

Solenoids:

NAMUR mount (voltages of 12 to 24 VDC, 24 to 220 VAC), NEMA-4, NEMA-7, intrinsically safe.

Limit Switches:

Mechanical, proximity, ASI, fieldbus; visual open and close indication.

Positioners:

Pneumatic (3 to 15 PSI control); electropneumatic (4 to 20 mA control).

O SERIES MODEL NUMBERING

Model Number: _____

Type: _____

D = Direct Acting

S = Spring Return

Size: _____

(see Torque table, pg. 2)

008 to 3840

Fail Position: _____

(spring return models only)

(omit) = Fail Closed (standard)

FO = Fail Open

P X X X



TEMPERATURE RANGE

-4°F to 175°F (with dry air)

SPECIFICATIONS

Supply Pressure:

20 to 120 PSI (direct acting),
40 to 120 PSI (spring return).

Output Torque:

60 to 25,600 in./lb. at 80 PSI
supply pressure.

Control Media:

Dry, filtered compressed air, not
necessarily lubricated.

In case of lubricated air, either
non-detergent oil or NBR
compatible oil must be used.

O Series

Pneumatic Actuator

(Double acting or spring return)

TORQUE SPECIFICATIONS, SPRING RETURN

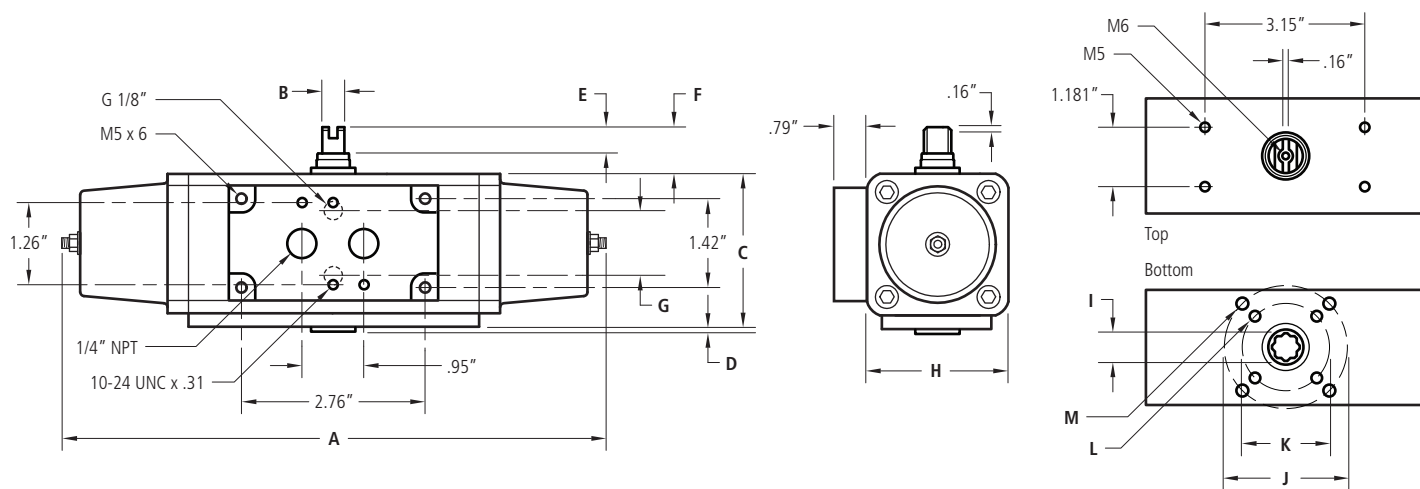
Actuator Size	Angle	Air Supply: 60 PSI		Air Supply: 80 PSI		Model No.
		Air Stroke	Spring Stroke	Air Stroke	Spring Stroke	
015	0°	100.0	66.4	132.8	88.5	PS015
	50°	49.6	49.6	66.4	66.4	
	90°	66.4	100.0	88.5	132.8	
030	0°	199.1	132.8	265.5	177.0	PS030
	50°	100.0	100.0	132.8	132.8	
	90°	132.8	199.1	177.0	265.5	
045	0°	300.0	199.1	398.3	265.5	PS045
	50°	148.7	148.7	199.1	199.1	
	90°	199.1	300.0	265.5	398.3	
060	0°	398.3	265.5	531.1	354.0	PS060
	50°	199.1	199.1	265.5	265.5	
	90°	265.5	398.3	354.0	531.1	
090	0°	597.4	398.3	796.6	531.1	PS090
	50°	300.0	300.0	398.3	398.3	
	90°	398.3	597.4	531.1	796.6	
120	0°	796.6	531.1	1,062.1	708.1	PS120
	50°	398.3	398.3	531.1	531.1	
	90°	531.1	796.6	708.1	1,062.1	
180	0°	1,194.9	796.6	1,593.2	1,062.1	PS180
	50°	597.4	597.4	796.6	796.6	
	90°	796.6	1,194.9	1,062.1	1,593.2	
240	0°	1,593.2	1,062.1	2,124.2	1,416.2	PS240
	50°	796.6	796.6	1,062.1	1,062.1	
	90°	1,062.1	1,593.2	1,416.2	2,124.2	
360	0°	2,389.8	1,593.2	3,186.4	2,124.2	PS360
	50°	1,194.4	1,194.9	1,593.2	1,593.2	
	90°	1,593.2	2,389.8	2,124.2	3,186.4	
480	0°	3,186.4	2,124.2	4,248.5	2,832.3	PS480
	50°	1,593.2	1,593.2	2,124.4	2,124.2	
	90°	2,124.2	3,186.4	2,832.3	4,248.5	
720	0°	4,779.5	3,186.4	6,372.7	4,248.5	PS720
	50°	2,389.8	2,389.8	3,186.4	3,186.4	
	90°	3,186.4	4,779.5	4,248.5	6,372.7	
960	0°	6,372.7	4,248.5	8,497.0	5,664.6	PS960
	50°	3,186.4	3,186.4	4,248.5	4,248.5	
	90°	4,248.5	6,372.7	5,664.6	8,497.0	
1920	0°	12,745.4	8,497.0	16,993.9	11,329.3	PS1920
	50°	6,372.7	6,372.7	8,497.0	8,497.0	
	90°	8,497.0	12,745.4	11,329.3	16,993.9	

TORQUE SPECIFICATIONS, DOUBLE ACTING

Actuator Size	Angle	Air Supply: 60 PSI	Air Supply: 80 PSI	Model No.
008	0°	50.5	70.8	PD008
	50°	24.8	35.4	
	90°	50.5	70.8	
015	0°	94.7	132.8	PD015
	50°	47.8	66.4	
	90°	71.7	100.0	
030	0°	189.4	265.5	PD030
	50°	94.7	132.8	
	90°	142.5	199.1	
045	0°	284.1	398.3	PD045
	50°	143.4	199.1	
	90°	215.1	300.9	
060	0°	379.7	531.1	PD060
	50°	189.4	265.5	
	90°	284.1	398.3	
090	0°	568.2	796.6	PD090
	50°	286.8	398.3	
	90°	430.2	601.9	
120	0°	758.5	1,062.1	PD120
	50°	379.7	531.1	
	90°	569.1	796.6	
180	0°	1,136.5	1,593.2	PD180
	50°	573.5	796.6	
	90°	860.3	1,194.9	
240	0°	1,517.1	2,124.2	PD240
	50°	758.5	1,062.1	
	90°	1,138.2	1,593.2	
360	0°	2,272.9	3,186.4	PD360
	50°	1,147.1	1,593.2	
	90°	1,720.6	2,389.8	
480	0°	3,035.0	4,248.5	PD480
	50°	1,517.1	2,124.2	
	90°	2,275.6	3,186.4	
720	0°	4,545.9	6,372.7	PD720
	50°	2,294.2	3,186.4	
	90°	3,441.3	4,779.5	
960	0°	6,069.1	8,497.0	PD960
	50°	3,035.0	4,248.5	
	90°	4,552.1	6,372.7	
1440	0°	9,091.7	12,745.4	PD1440
	50°	4,588.4	6,372.7	
	90°	6,882.5	9,559.1	
1920	0°	12,138.3	16,993.9	PD1920
	50°	6,070.0	8,497.0	
	90°	9,104.1	12,745.4	
3840	0°	25,136.8	33,987.8	PD3840
	50°	12,125.9	16,993.9	
	90°	18,188.8	25,490.9	

O Series

Pneumatic Actuator (Spring return)

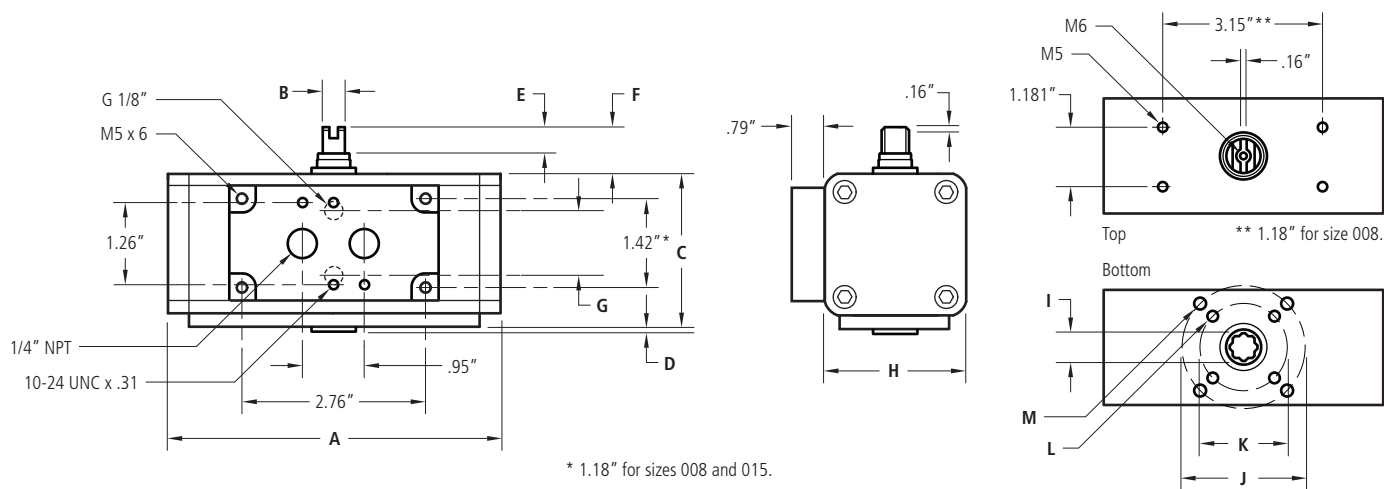


DIMENSIONS, WEIGHTS & SPECIFICATIONS

Actuator Size	ISO	A	B	C	D	E	F	G	H	I	J	K	L	M	Wt. (lbs.)	Model No.
015	F03, F05	8.70	.35	2.36	.08	.39	.79	.98	2.17	.35	1.97	1.42	M5 x 9	M6 x 11	2.87	PS015
030	F04	9.45	.39	2.76	.08	.51	.79	.81	2.56	.43	-	1.65	M5 x 9	-	4.41	PS030
	F03, F05	9.45	.39	2.76	.08	.51	.79	.81	2.56	.43	1.97	1.42	M5 x 9	M6 x 11	4.41	
045	F05, F07	11.57	.47	3.05	.12	.51	.79	.81	2.83	.55	-	1.97	M6 x 11	-	5.29	PS045
060	F05, F07	12.60	.47	3.39	.12	.51	1.18	.98	3.15	.55	2.76	1.97	M6 x 11	M8 x 15	7.72	PS060
090	F05, F07	14.06	.59	3.78	.12	.63	1.18	.98	3.54	.67	2.76	1.97	M6 x 11	M8 x 15	10.14	PS090
120	F05, F07	14.65	.59	4.17	.12	.67	1.18	.98	3.94	.67	2.76	1.97	M6 x 11	M8 x 15	14.77	PS120
180	F07, F10	17.17	.75	4.65	.12	.75	1.18	.98	4.41	.87	4.02	2.76	M8 x 15	M10 x 17	20.72	PS180

O Series

Pneumatic Actuator (Double acting)



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Actuator Size	ISO	A	B	C	D	E	F	G	H	I	J	K	L	M	Wt. (lbs.)	Model No.
008	F03	2.76	.31	1.68	.08	.31	.59	.91	1.70	.35	-	.98	M5 x 8	-	.64	PD008
015	F03	4.53	.31	2.05	.08	.39	.79	.81	1.89	.35	-	.98	M5 x 8	-	1.61	PD015
030	F03, F05	5.12	.35	2.36	.08	.39	.79	.98	2.17	.35	1.97	.98, 1.38	M5 x 9	M6 x 11	2.20	PD030
045	F04	5.67	.39	2.59	.08	.51	.79	.98	2.36	.43	-	1.18	M5 x 9	-	2.76	PD045
	F03, F05	5.67	.39	2.59	.08	.51	.79	.98	2.36	.43	1.97	.98, 1.38	M5 x 9	M6 x 11	2.76	
060	F04	5.98	.39	2.76	.08	.51	.79	.81	2.56	.43	-	1.18	M5 x 9	-	3.44	PD060
	F03, F05	5.98	.39	2.76	.08	.51	.79	.81	2.56	.43	1.97	.98, 1.38	M5 x 9	M6 x 11	3.44	
090	F05, F07	6.65	.47	3.05	.12	.51	.79	.81	2.83	.55	2.76	1.38, 2.17	M6 x 11	-	4.08	PD090
120	F05, F07	7.24	.47	3.39	.12	.51	1.18	.98	3.15	.55	2.76	1.38, 2.17	M6 x 11	M8 x 15	6.17	PD120
180	F05, F07	8.35	.59	3.78	.12	.63	1.18	.98	3.54	.67	2.76	1.38, 2.17	M6 x 11	M8 x 15	7.50	PD180
240	F05, F07	9.53	.59	4.17	.12	.67	1.18	.98	3.94	.67	2.76	1.38, 2.17	M6 x 11	M8 x 15	11.68	PD240
360	F07, F10	10.39	.75	4.65	.12	.75	1.18	.98	4.41	.87	4.02	2.17, 2.76	M8 x 15	M10 x 17	15.87	PD360

E & P Series

Pneumatic Actuator



The Assured Automation E and P Series pneumatic actuators offer a simple and cost effective solution for your valve automation needs. For use on quarter turn (90°) ball valves, plug valves, dampers, and resilient seated butterfly valves.

FEATURES

- High duty cycle life, up to 1,000,000 cycles.
- Double acting and spring return models.
- Direct mounting to ball and butterfly valves, multiple ISO drillings on each actuator: NAMUR DVI/DVE 3845, DIN 3337, ISO 5211.
- NAMUR solenoid and limit switch mounting.
- Removable drive insert for diamond or square configuration.
- Visual position indicator (Open/Closed).

MATERIALS OF CONSTRUCTION

Housing:

Anodized aluminum with dual component polyurethane coating.

Mounting and Shaft:

Zinc plated steel.

ACCESSORIES

Solenoids:

NAMUR mount (voltages of 12 to 24 VDC, 24 to 220 VAC), NEMA-4, NEMA-7, intrinsically safe.

Limit Switches:

Mechanical, proximity, ASI, fieldbus; visual open and close indication.

Positioners:

Pneumatic (3 to 15 PSI control); electropneumatic (4 to 20 mA control).

E SERIES

MODEL NUMBERING

Model Number: _____

Type: _____

D = Double Acting
S = Spring Return
(Fail Closed)

Size: _____

(see Torque tables, pg. 2-3)

12 to 1600

Spring Set: _____

(see Torque table, pg. 2)

2 to 6

E X X X

P SERIES

MODEL NUMBERING

Model Number: _____

Type: _____

D = Double Acting
S = Spring Return
(Fail Closed)

Size: _____

(see Torque tables, pg. 2-3)

2500 to 4000

Spring Set: _____

(see Torque table, pg. 2)

8 to 14

P X X X

TEMPERATURE RANGE

-4°F to 175°F

SPECIFICATIONS

Supply Pressure:

20 to 120 PSI (double acting),
40 to 120 PSI (spring return).

Output Torque:

Up to 40,000 in./lb. at 80 PSI
supply pressure.

E & P Series

Pneumatic Actuator

(Double acting or spring return)

TORQUE SPECIFICATIONS, SPRING RETURN

Actuator Size	Spring Set	Air Stroke										Spring Stroke		Model No.
		Air Supply: 40 PSI		Air Supply: 60 PSI		Air Supply: 80 PSI		Air Supply: 100 PSI		Air Supply: 120 PSI				
		Start	End	Start	End	Start	End	Start	End	Start	End	Start	End	
12	2	-	-	48	23	80	55	112	87	143	119	64	41	ES12-2
25	3	49	8	107	66	166	126	225	185	284	243	94	58	ES25-3
	4	-	-	85	31	144	90	202	149	261	208	125	78	ES25-4
	5	-	-	-	-	121	54	180	113	239	172	156	98	ES25-5
	6	-	-	-	-	99	18	157	77	216	136	188	117	ES25-6
40	3	90	15	201	126	312	236	422	346	533	457	176	110	ES40-3
	4	-	-	159	58	270	169	380	279	491	390	234	146	ES40-4
	5	-	-	-	-	228	101	338	212	449	322	293	183	ES40-5
	6	-	-	-	-	185	34	296	144	407	255	351	220	ES40-6
65	3	129	10	297	178	466	347	634	515	802	683	279	175	ES65-3
	4	-	-	230	72	398	240	566	408	735	576	372	234	ES65-4
	5	-	-	-	-	331	133	499	301	667	469	465	292	ES65-5
	6	-	-	-	-	264	26	432	195	601	363	558	351	ES65-6
100	3	211	43	459	293	709	542	958	790	1,206	1,039	388	242	ES100-3
	4	-	-	366	143	615	392	863	641	1,112	889	516	323	ES100-4
	5	-	-	-	-	522	244	771	492	1,019	741	646	403	ES100-5
	6	-	-	-	-	429	95	678	344	927	593	775	484	ES100-6
200	3	448	73	994	620	1,539	1,165	2,085	1,711	2,630	2,256	868	543	ES200-3
	4	-	-	786	287	1,332	833	1,878	1,378	2,423	1,924	1,157	723	ES200-4
	5	-	-	-	-	1,124	500	1,670	1,045	2,216	1,592	1,447	904	ES200-5
	6	-	-	-	-	916	167	1,462	713	2,008	1,259	1,736	1,085	ES200-6
350	3	727	96	1,675	1,044	2,623	1,991	3,571	2,939	4,519	3,887	1,537	988	ES350-3
	4	-	-	1,297	454	2,245	1,403	3,192	2,351	4,140	3,299	2,049	1,316	ES350-4
	5	-	-	-	-	1,867	813	2,815	1,763	3,762	2,710	2,561	1,645	ES350-5
	6	-	-	-	-	1,488	225	2,436	1,173	3,384	2,121	3,074	1,975	ES350-6
600	3	1,298	193	2,908	1,804	4,520	3,415	6,131	5,026	7,742	6,637	2,584	1,623	ES600-3
	4	-	-	2,287	813	3,898	2,425	5,509	4,036	7,120	5,647	3,447	2,165	ES600-4
	5	-	-	-	-	3,276	1,435	4,887	3,046	6,498	4,656	4,308	2,706	ES600-5
	6	-	-	-	-	2,654	444	4,265	2,055	5,876	3,666	5,170	3,247	ES600-6
950	3	1,986	305	4,391	2,709	6,796	5,114	9,200	7,519	11,905	9,924	3,844	2,381	ES950-3
	4	-	-	3,478	1,237	5,883	3,641	8,289	6,046	10,694	8,451	5,126	3,175	ES950-4
	5	-	-	-	-	4,972	2,168	7,376	4,573	9,781	6,978	6,407	3,968	ES950-5
	6	-	-	-	-	4,059	696	6,464	3,100	8,869	5,505	7,688	4,762	ES950-6
1600	3	3,245	579	7,220	4,554	11,195	8,530	15,171	12,505	19,147	16,481	6,289	3,970	ES1600-3
	4	-	-	5,699	2,145	9,675	6,120	13,650	10,095	17,625	14,071	8,385	5,293	ES1600-4
	5	-	-	-	-	8,153	3,710	12,129	7,686	16,105	11,662	10,481	6,616	ES1600-5
	6	-	-	-	-	6,633	1,301	10,609	5,277	14,583	9,252	12,578	7,939	ES1600-6
2500	8	5,251	1,781	11,245	7,775	17,239	13,769	23,233	19,763	29,227	25,758	9,351	5,868	PS2500-8
	10	-	-	9,615	5,277	15,609	11,272	21,603	17,266	27,597	23,260	11,689	7,335	PS2500-10
	12	-	-	7,985	2,780	13,979	8,774	19,973	14,768	25,967	20,763	14,026	8,803	PS2500-12
	14	-	-	-	-	12,349	6,277	18,343	12,271	24,337	18,265	16,364	10,270	PS2500-14
4000	8	8,949	3,096	19,111	13,257	29,272	23,418	39,434	33,580	49,595	43,741	15,780	9,905	PS4000-8
	10	-	-	16,359	9,042	26,521	19,204	36,682	29,365	46,844	39,527	19,725	12,381	PS4000-10
	12	-	-	13,608	4,827	23,770	14,989	33,931	25,150	44,092	35,312	23,670	14,857	PS4000-12
	14	-	-	-	-	21,018	10,774	31,180	20,936	41,341	31,097	27,615	17,333	PS4000-14

E & P Series

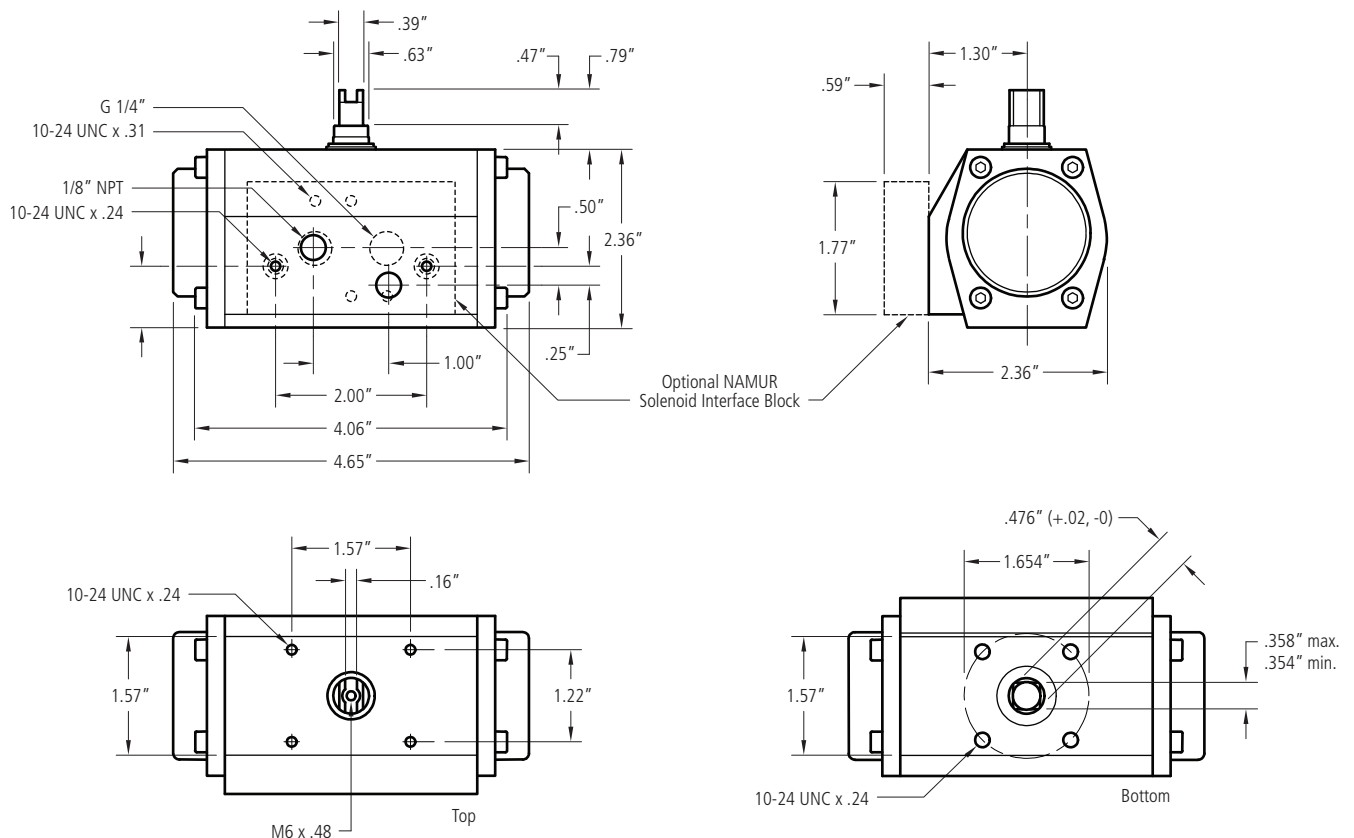
Pneumatic Actuator

(Double acting or spring return)

TORQUE SPECIFICATIONS, DOUBLE ACTING

Actuator Size	Air Stroke													Model No.
	Air Supply (PSI)													
	30	35	40	45	50	55	60	70	75	80	90	100	120	
12	43.9	51.4	58.9	66.4	73.9	81.4	88.9	104	111	119	134	149	179	ED12
25	81.4	95.3	109	123	137	151	165	193	206	220	248	276	332	ED25
40	153	179	205	231	257	283	309	361	387	413	466	518	622	ED40
65	233	272	312	352	392	431	471	551	590	630	709	789	948	ED65
100	344	402	461	520	578	637	696	813	872	930	1,048	1,165	1,400	ED100
200	754	883	1,011	1,140	1,269	1,398	1,527	1,784	1,913	2,042	1,199	1,557	3,072	ED200
350	1,310	1,534	1,757	1,981	2,205	2,428	2,652	3,100	3,323	3,547	3,994	4,442	5,337	ED350
600	2,226	2,606	2,986	3,366	3,747	4,127	4,507	5,267	5,647	6,028	6,788	7,548	9,069	ED600
950	3,323	3,890	4,458	5,025	5,593	6,160	6,728	7,862	8,430	8,997	10,132	11,267	13,537	ED950
1600	5,493	6,431	7,369	8,307	9,245	10,183	11,121	12,998	13,936	14,874	16,750	18,626	22,379	ED1600
2500	8,774	10,273	11,825	13,270	14,768	16,267	17,847	20,858	22,363	23,869	26,880	29,891	35,912	PD2500
4000	14,874	17,414	19,962	22,495	25,035	27,576	30,127	35,210	37,751	40,293	45,375	50,458	60,623	PD4000

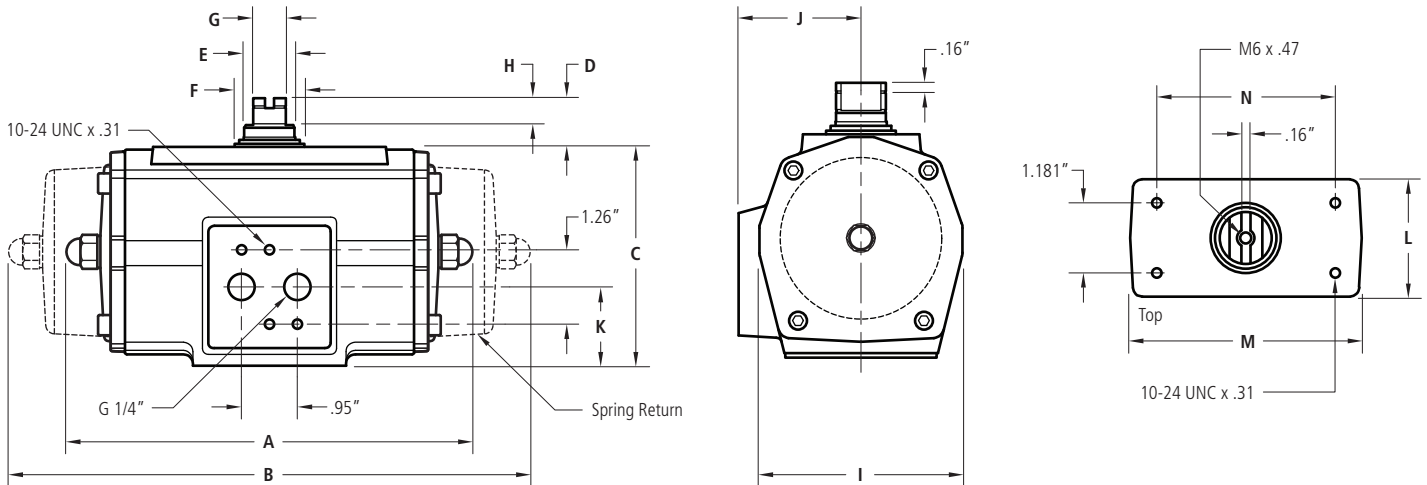
DIMENSIONS & SPECIFICATIONS (SIZE 12 ONLY)



E & P Series

Pneumatic Actuator

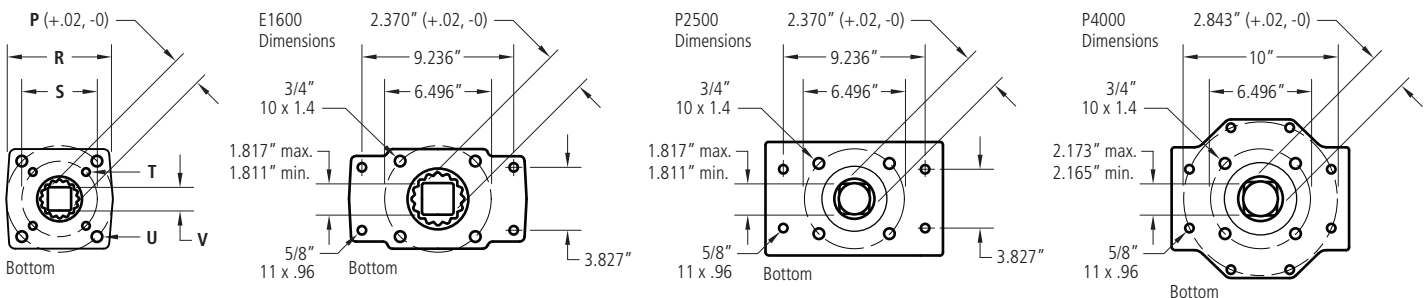
(Double acting or spring return)



DIMENSIONS & SPECIFICATIONS

Actuator Size	A	B	C	D	E	F	G	H	I	J	K	L	M	N	Model No.
25	6.26	6.77	3.15	.79	.63	.91	.39	.47	2.91	1.81	1.26	1.97	3.94	3.150	EØ25
40	7.09	8.03	3.66	.79	.87	1.18	.55	.47	3.39	2.09	1.32	1.97	3.94	3.150	EØ40
65	7.83	9.80	4.13	.79	.87	1.18	.55	.47	3.86	2.26	1.54	1.97	3.94	3.150	EØ65
100	8.70	10.51	4.65	.79	.87	1.18	.55	.47	4.25	2.48	1.59	2.36	3.94	3.150	EØ100
200	11.14	14.17	5.63	.79	1.42	1.77	.75	.47	5.04	2.87	1.99	2.36	3.94	3.150	EØ200
350	12.01	15.24	7.13	.79	1.42	1.77	.75	.47	6.81	3.71	2.85	2.36	3.94	3.150	EØ350
600	15.24	18.78	8.66	1.18	2.17	2.56	1.42	.39	8.15	4.45	3.33	3.54	6.69	5.118	EØ600
950	16.69	20.35	10.20	1.18	2.17	2.56	1.42	.39	9.09	4.96	4.15	3.54	6.69	5.118	EØ950
1600	20.31	25.08	11.69	1.18	2.52	2.95	1.42	.39	10.43	5.59	4.74	4.92	8.27	5.118	EØ1600
2500	14.88	22.44	14.02	1.18	2.17	2.56	1.42	.39	13.78	7.28	7.01	6.30	9.65	5.118	PØ2500
4000	19.76	32.83	14.96	1.18	2.52	3.15	1.42	.39	14.96	7.87	7.48	6.30	9.65	5.118	PØ4000

⊙ Type: D = Double Acting; S = Spring Return.



MOUNTING DIMENSIONS & SPECIFICATIONS

Actuator Size	P	R	S	T	U	V	
						max.	min.
25	.555	1.969	-	-	1/4" 20 x .39	.437	.433
40	.713	2.756	1.969	1/4" 20 x .39	5/16" 18 x .39	.556	.551
65	.713	2.756	1.969	1/4" 20 x .39	5/16" 18 x .39	.556	.551
100	.992	2.756	1.969	1/4" 20 x .39	5/16" 18 x .39	.753	.748

Actuator Size	P	R	S	T	U	V	
						max.	min.
200	1.110	4.016	2.756	5/16" 18 x .39	3/8" 16 x .63	.871	.866
350	1.425	4.016	2.756	5/16" 18 x .39	3/8" 16 x .63	1.068	1.063
600	1.425	4.921	4.016	3/8" 16 x .63	1/2" 13 x .79	1.067	1.063
950	1.898	5.512	4.016	3/8" 16 x .63	5/8" 11 x .98	1.424	1.417

YF Series

Weatherproof Position Monitoring Limit Switch



YF Series position monitoring switch boxes are rotary position indication devices designed to integrate valve and NAMUR rotary pneumatic actuator with a variety of mounting options, configurations, and internal switches or sensors. They are specially designed to be suitable for small size pneumatic actuators and valves to reduce installation space, yet still provide high performance by equipping a variety of switches and sensors.

FEATURES

- Easy, precise cam set with no need for a setting tool. Red cam for close, green cam for open.
- Terminal blocks and socket type terminal strip with screws (max. 2.5mm², 26 A @ 86°F, approved by UL, CSA).
- Visual position indicator directly engaged with driving shaft to provide continuous position indication. Red for close, yellow for open.
- High strength, chemical resistant and transparent polycarbonate dome for high visibility and reliability.

SPECIFICATIONS

Enclosure:

Weatherproof IP 67, O-ring sealed.

Exterior and Interior Coating:

Epoxy-polyester coated to protect against corrosion.

Mounting Bracket:

Stainless steel acc. to VDI/VDE3845, NAMUR, SS1, SS2 as standard.

YF SERIES

MODEL NUMBERING

Model Number: _____

Configuration: _____
F = Switch Only

Optional:

Port Style: _____
(Leave blank for 2-way Valves)
L = For L Ported 3-way Valves
T = For T Ported 3-way Valves

TEMPERATURE RANGE

-4°F to 176°F

SWITCH RATINGS

16 A @ 125/250 VAC
0.6 A @ 125 VDC
0.3 A @ 250 VDC
(approved by UL, CSA)

ADDITIONAL SPECIFICATIONS

Cable Entries:

(2) 1/2" NPT.

Terminals:

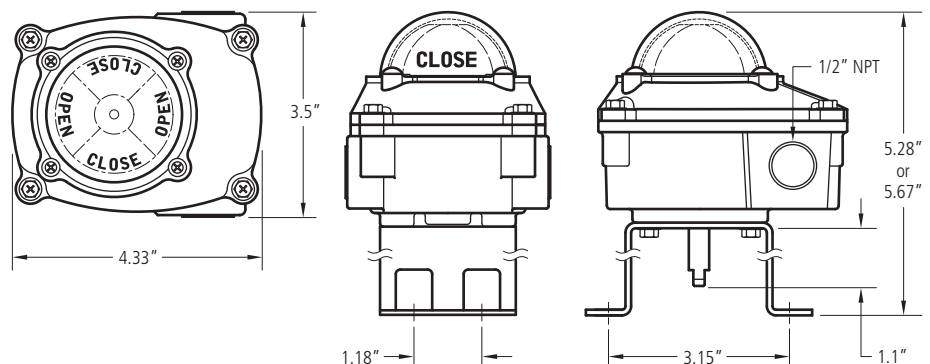
8 block terminal strip
(6 for switches, 2 for solenoid valve power).

Position Indicator:

Dome type, 0-90°, L-port, T-port.

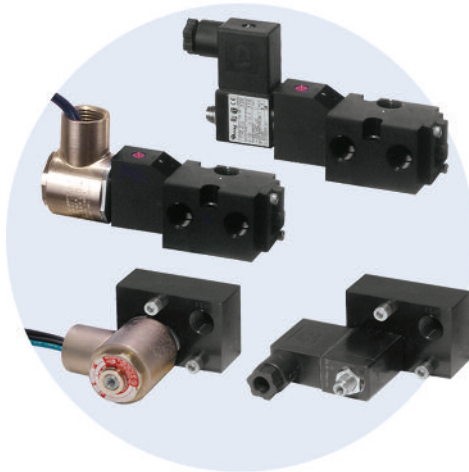
Switches:

(2) SPDT mechanical switches.



Solenoids

Solenoid Valves and Connectors



The Assured Automation E and C series control valve is an inexpensive, simple and effective 3-way (E) or 3/4-way (C) solenoid/pilot valve. They are designed to mount directly to an NAMUR actuator thus reducing cost of tubing, fittings, brackets and labor.

The E series is only available in a 3-way configuration, which is most effective on spring return or fail-safe actuators where high speed open or close is not important. The C series is available in 3-way or 4-way configuration, which can be used on spring return or double acting actuators. Manual overrides (guarded-push to operate) are standard on all C series solenoid/pilot valves.

The B series is only available in a 3-way configuration, which is most effective on spring return or fail-safe actuators and is designed to mount to non-NAMUR actuators.

CV FACTORS & COIL POWER

Model	CV	Connector	Nominal Coil Power	
			AC	DC
B	.06	3	6 VA	5 W
E	.75	1	6 W	7 W
		2	5.6 W	7.2 W
		3 & 4	8.5 W	10.5 W
C	.75	1	6 W	7 W
		2	5.6 W	7.2 W
		3 & 4	8.5 W	10.5 W

SOLENOID MODEL NUMBERING

Model Number: _____

Type: _____

B = 3-way 1/8" G thread*

E = 3-way NAMUR

C = 3/4-way NAMUR

Connector: _____

1 = Weatherproof, NEMA 4/4X, Potted 1/2" Conduit

2 = Explosion Proof, NEMA 4/4X & 7, Potted 1/2" Conduit, UL Listed, CSA Approved

3 = Weatherproof, NEMA 4/4X, Mini DIN, Cord Grip PG9

4 = Weatherproof, NEMA 4/4X, Mini DIN, 1/2" Conduit

5 = Weatherproof, NEMA 4/4X, Mini DIN, 6' Cord Set

6 = Weatherproof, NEMA 4/4X, Mini DIN, 15' Cord Set

Voltage: _____

A = 120 VAC

B = 24 VDC

C = 220 VAC

E = 24 VAC

F = 12 VDC

J = 48 VDC**

* Only available with #3 connector.

** Models E & C only.

CONNECTOR REFERENCE



1



2



3



4



5 & 6

CB Series

Weatherproof Control Box



CB Series weatherproof control boxes allow the user to operate Assured Automation electric or pneumatic actuators from a remote location (pneumatic actuators require a solenoid). These compact control boxes are available with lamp indication for feedback confirmation of actuator/valve position (limit switch required).

FEATURES

- Compact design.
- High strength, chemical resistant, weatherproof enclosure.
- Long life lamps for 100,000 hours continuous use.
- Protected LED modules.

SPECIFICATIONS

Enclosure Ratings:

NEMA-1, 4X, 12, 13.

Switches:

Double insulated black plastic; UL Listed, CSA CE Certified.

Lamps:

110 VAC LED with built in resistor.

Contact Rating:

10 A at 125/250 VAC.

CB SERIES

MODEL NUMBERING

Model Number: **CB XX-XX**

Switch: _____

S1 = Open/Stop/Close*

S2 = Close/Stop/Open*

S3 = Open/Close

S4 = Close/Open

S5 = Stop/Start

S6 = Start/Stop

S7 = Off/On

S8 = On/Off

XX = No Switch

Lights: _____

OC = Open Light, Close Light

CO = Close Light, Open Light

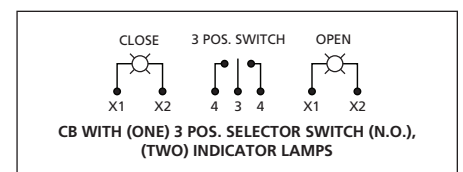
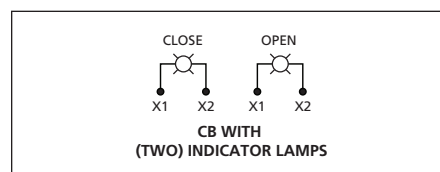
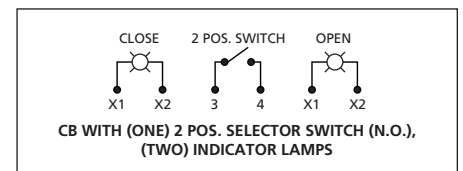
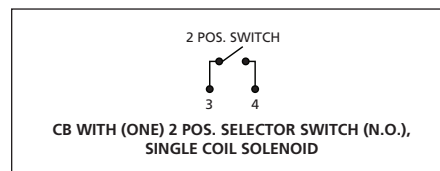
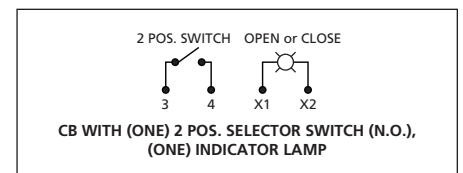
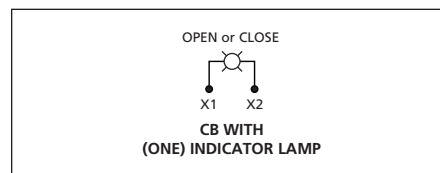
OX = Open Light

XC = Close Light

XX = No Lights

* Stop position for manual override or isolating unit.

WIRING DIAGRAMS

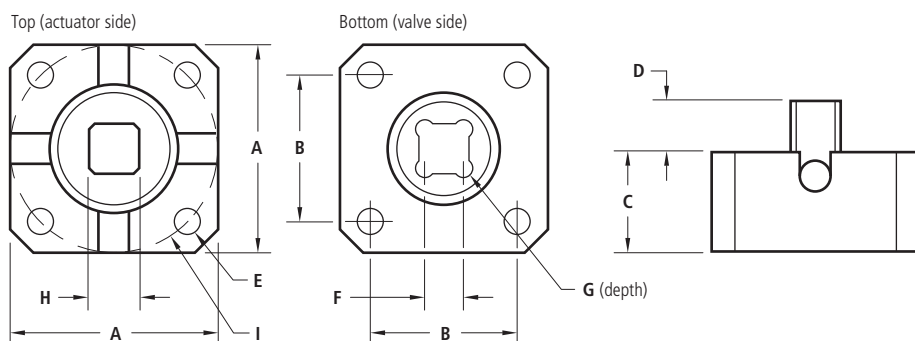


RetroLok®

Lock Out Device



RetroLok® is a locking device that can be easily installed without modification to existing automation packages. This device allows quick visual determination from a distance of whether the quaternary valve is locked open or closed by the locking pin flag.



DIMENSIONS & ADDITIONAL SPECIFICATIONS

A	B	C	D	E	F	G	H	I	Model No.
2.125	1.39	1.438	.63	.280	.551	.63	.550	1.969	F05/14
2.750	1.95	1.313	.70	.340	.669	.70	.669	2.756	F07/17
2.750	1.95	1.313	.75	.340	.748	.70	.748	2.756	F07/19
3.500	2.84	1.688	.88	.410	.866	1.00	.866	4.016	F10/22
3.500	2.84	1.688	1.13	.410	1.060	1.13	1.063	4.016	F10/27
4.500	3.48	1.873	1.13	.560	1.060	1.13	1.063	4.920	F12/27
5.250	3.89	1.938	1.25	.690	1.417	1.25	1.416	5.512	F16/36
6.250	4.60	3.750	1.88	.844	1.816	2.00	1.810	6.496	F16/46

Retrolok is a registered trademark of Engineering Manufacturing Services.

Impact

Pneumatic Spring Assist



The Impact spring assist is a pneumatic device whose purpose is to increase spring closing torque on spring return actuators. This is achieved by diverting air pressure from the inner chamber to the spring chambers so that in combination with the spring force an increase in the total closing torque of the actuator is achieved. Redirecting the air pressure into the spring chamber increases the spring end torque by 50% or more.

The Impact can be utilized directly on site where operating conditions may occur that cause functional disorders or become a safety issue. Some typical examples are given here:

- Actuators that are not achieving their published torque output can have the Impact field mounted to improve their reliability without having to replace them or stop the process.
- In situations where unexpected pressure drops occur, such as at the beginning of a day's work or when additional accessories are added to the system, the Impact will keep the pressure level at its maximum and prevent the actuators from shifting their position.
- In many cases it is possible to substitute a smaller actuator with the Impact and achieve the torque output of a larger actuator.
- The Impact will increase the reliability and safety margin of existing actuators. The additional torque provided to existing actuators extend their life and reduce maintenance.
- The Impact is ideal for critical applications where quick-closing actuators are required.
- The Impact will help "self opening" valves keep their shut-off position.

IMPACT MODEL NUMBERING

Model Number: **IMPACT-X**

Connection: _____

I = Imperial

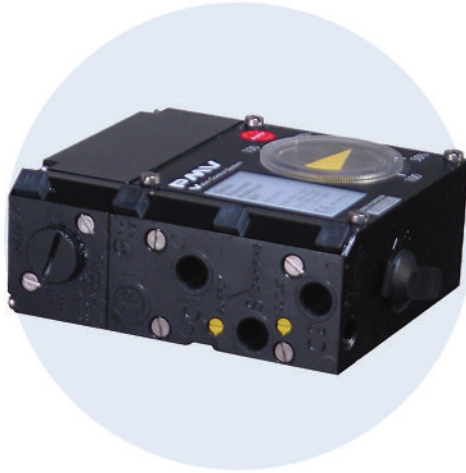
M = Metric

FEATURES

- Increases torque by 50% or more.
- Single unit.
- Increases system reliability.
- No external energy.
- Dynamic reaction.
- NAMUR interface.
- Internal breather block.

P5 & E5 Series

Pneumatic and Electro-Pneumatic Positioner



The P5 is a pneumatic positioner accepting a 3-15 psi control signal.

The E5 is an electro-pneumatic positioner accepting a 4-20mA control signal.

Both units feature a NAMUR drive shaft and visual indicator to identify the unit's position. They are modular design units, so additional options like feedback modules and gauge ports can be added.

FEATURES

- Economical, yet high performance.
- Low profile design.
- Stainless steel mounting bracket.
- Simple calibration of Zero and Span.
- NEMA-4 (standard), NEMA-7 (optional).

MATERIALS OF CONSTRUCTION

Housing:

Die Cast Aluminum Epoxy Painted.

MAXIMUM PRESSURE

150 PSI (water and dust free)

TEMPERATURE RANGE

-4°F to 185°F

SPECIFICATIONS

Deadband:

< 0.15%.

Linearity:

< 1%.

Hysteresis:

< 0.75%.

Repeatability:

< 0.5%.

Air Connections:

1/4" NPT.

Gauge Connections:

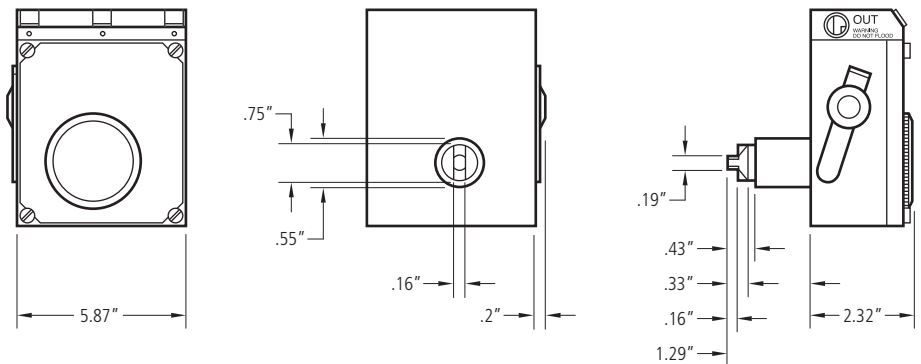
1/8" NPT.

Conduit Entry (E5):

1/2" NPT.

Air Consumption:

12.8 scfm at 60 PSI.



FireChek® FC4 Series

FM Approved Heat Activated Pneumatic Shut-off Valve



When FireChek senses excessive heat from a nearby fire, it immediately vents the pneumatic actuator and closes the actuator air supply line. FireChek triggers quickly, securing pneumatically operated process line valves. Because FireChek responds to heat, not flame, it offers dramatically improved protection compared with conventional plastic tubing burn-through. It shuts off the air supply line to prevent plant air from feeding oxygen to a fire.

The shape memory element senses the ambient temperature and, through a phase induction change, rapidly produces the force and motion to operate FireChek. The element is 100% reliable because the shape memory effect is intrinsic to the alloy. Shape memory alloys have performed successfully for years in military, industrial, and consumer product applications.

FireChek's manual reset allows routine performance testing for safety maintenance programs. A hot-air gun will quickly actuate FireChek. After cooling briefly, the FireChek can easily be reset without the use of tools, for continued protection.

FireChek installs easily between the pneumatic supply and spring return actuator via two female threaded connections.

FEATURES

- Rapidly responds to temperature rise, not flames.
- Vents actuator air pressure.
- Closes actuator air supply line.
- Needs no power source, self activates.
- Compatible with all pneumatic actuators.
- No contact with process fluids.
- Easy to test and reset.
- Reliable, intrinsic triggering.
- Easy to retrofit, installs in minutes.
- FM approved.

FC4 SERIES

MODEL NUMBERING

Model Number: _____ **FC4 XX**

Connection: _____

NPT = 1/4-18 NPT (standard)

ISO = 1/4-19 ISO

Actuation Temperature: _____

135 = 135°F

150 = 150°F

165 = 165°F (standard)

MAXIMUM PRESSURE

126 PSI (8.62 bar)

MATERIALS OF CONSTRUCTION

**Shape Memory Alloy
Actuator and Sensor:**
MEMORY®.

Thermal Insulators:
DELFIN®.

O-rings:
BUNA-N.

**Body Cover, Reset, Shuttle
Cap, Pin and Bias Spring:**
300 stainless steel.

SPECIFICATIONS

Actuation Time:

25 sec. or less at a temperature rise rate of 30°F/min.

Fill and Discharge Capacity:

1 liter of air in under 1 sec. at 125 PSI (8.62 bar); 0.49 CV.

Dimensions:

2.59" length, 1.00" diameter.

Weight:

0.482 lbs.

YF Series

Weatherproof Position Monitoring Limit Switch



YF Series position monitoring switch boxes are rotary position indication devices designed to integrate valve and NAMUR rotary pneumatic actuator with a variety of mounting options, configurations, and internal switches or sensors. They are specially designed to be suitable for small size pneumatic actuators and valves to reduce installation space, yet still provide high performance by equipping a variety of switches and sensors.

FEATURES

- Easy, precise cam set with no need for a setting tool. Red cam for close, green cam for open.
- Terminal blocks and socket type terminal strip with screws (max. 2.5mm², 26 A @ 86°F, approved by UL, CSA).
- Visual position indicator directly engaged with driving shaft to provide continuous position indication. Red for close, yellow for open.
- High strength, chemical resistant and transparent polycarbonate dome for high visibility and reliability.

SPECIFICATIONS

Enclosure:

Weatherproof IP 67, O-ring sealed.

Exterior and Interior Coating:

Epoxy-polyester coated to protect against corrosion.

Mounting Bracket:

Stainless steel acc. to VDI/VDE3845, NAMUR, SS1, SS2 as standard.

YF SERIES MODEL NUMBERING

Model Number: _____

Configuration: _____
F = Switch Only

Optional:

Port Style: _____
(Leave blank for 2-way Valves)
L = For L Ported 3-way Valves
T = For T Ported 3-way Valves

TEMPERATURE RANGE

-4°F to 176°F

SWITCH RATINGS

16 A @ 125/250 VAC
0.6 A @ 125 VDC
0.3 A @ 250 VDC
(approved by UL, CSA)

ADDITIONAL SPECIFICATIONS

Cable Entries:

(2) 1/2" NPT.

Terminals:

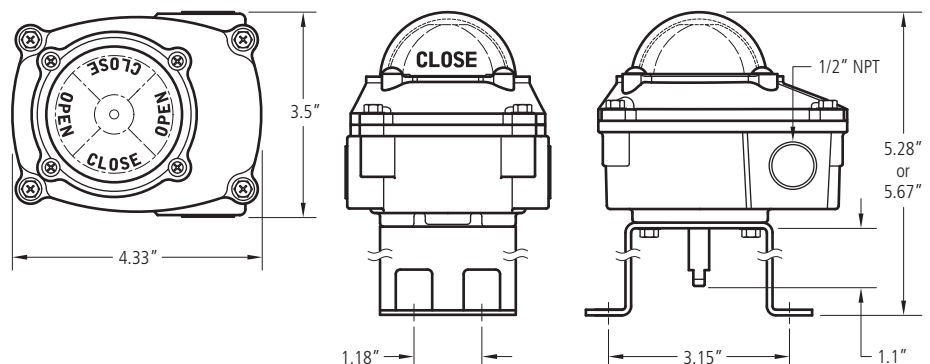
8 block terminal strip
(6 for switches, 2 for solenoid valve power).

Position Indicator:

Dome type, 0-90°, L-port, T-port.

Switches:

(2) SPDT mechanical switches.



YF Series

Weatherproof Position Monitoring Limit Switch



YF Series position monitoring switch boxes are rotary position indication devices designed to integrate valve and NAMUR rotary pneumatic actuator with a variety of mounting options, configurations, and internal switches or sensors. They are specially designed to be suitable for small size pneumatic actuators and valves to reduce installation space, yet still provide high performance by equipping a variety of switches and sensors.

FEATURES

- Easy, precise cam set with no need for a setting tool. Red cam for close, green cam for open.
- Terminal blocks and socket type terminal strip with screws (max. 2.5mm², 26 A @ 86°F, approved by UL, CSA).
- Visual position indicator directly engaged with driving shaft to provide continuous position indication. Red for close, yellow for open.
- High strength, chemical resistant and transparent polycarbonate dome for high visibility and reliability.

SPECIFICATIONS

Enclosure:

Weatherproof IP 67, O-ring sealed.

Exterior and Interior Coating:

Epoxy-polyester coated to protect against corrosion.

Mounting Bracket:

Stainless steel acc. to VDI/VDE3845, NAMUR, SS1, SS2 as standard.

YF SERIES

MODEL NUMBERING

Model Number:

Configuration: _____
F = Switch Only

Optional:

Port Style: _____
(Leave blank for 2-way Valves)
L = For L Ported 3-way Valves
T = For T Ported 3-way Valves

TEMPERATURE RANGE

-4°F to 176°F

SWITCH RATINGS

16 A @ 125/250 VAC
0.6 A @ 125 VDC
0.3 A @ 250 VDC
(approved by UL, CSA)

ADDITIONAL SPECIFICATIONS

Cable Entries:

(2) 1/2" NPT.

Terminals:

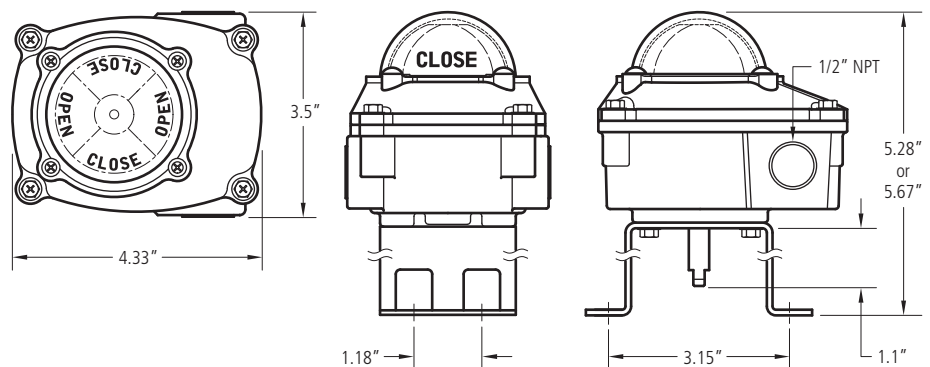
8 block terminal strip
(6 for switches, 2 for solenoid valve power).

Position Indicator:

Dome type, 0-90°, L-port, T-port.

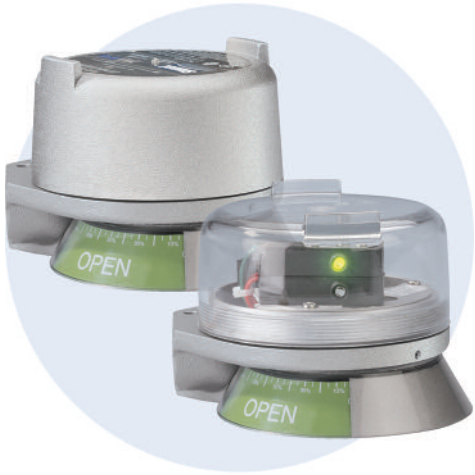
Switches:

(2) SPDT mechanical switches.



YH, YO & YE Series

Limit Switch



The YH, YO & YE Series offers one of the most versatile platforms for adapting to a variety of valve systems. The explosion/flare proof design is CSA/FM approved and ATEX certified for use in hazardous environments. With the epoxy coated anodized aluminum enclosure it may be used in corrosive heavy wash down areas as well.

In North America, FM and CSA have certified the YH, YO & YE Series for use without seal fittings in all hazardous areas. By passing special pressure piling tests, the enclosure was certified for this elite distinction. Now, a time-consuming procedure can be safely eliminated in Division 1 areas.

The YH, YO & YE Series design offers two conduit entries with extra wire terminations on the terminal block. By terminating solenoid valves in the switch enclosure, significant savings are realized by eliminating a junction box, wiring, conduit materials and labor.

FEATURES

- Screw-on cover allows quick enclosure access, saving you valuable maintenance and set-up time. The cover provides a vapor tight seal and allows entry to internal components in less than five seconds.
- Pre-wired and labeled terminal strip enables quick, convenient attachment of field wires.
- Reliability with switching options that include Maxx-Guard proximity switches and mechanical switches.
- Quick set cams are easy to adjust with "Touch and Tune" switch settings allowing you to make adjustments in seconds without the use of tools.
- Top inner and bottom outer shaft O-rings seal the drive bushing from both external corrosives and internal contaminants that enter the enclosure. Seals contain the drive bushing lubricant assuring smooth operation.
- Space saving visual indicator offers excellent viewability without sacrificing accessibility or adding to space requirements. Red for closed, green for open. Indicators are also available with continuous percentage or three-way indication.

YH, YO & YE SERIES MODEL NUMBERING

Model Number: _____

Configuration: _____
H = (2) LED Proximity Switches
O = (2) LED Proximity Switches
E = (2) Mechanical Switches

Optional: _____

Port Style: _____
(Leave blank for 2-way Valves)
L = For L Ported 3-way Valves
T = For T Ported 3-way Valves

Y X X

TEMPERATURE RANGE

-4°F to 176°F

MATERIALS OF CONSTRUCTION

Housing:

Epoxy coated anodized marine grade aluminum.

Cover:

Epoxy coated anodized marine grade aluminum (YH & YE), Lexan® polycarbonate (YO).

Elastomer Seals:

BUNA-N.

Drive Shaft:

Stainless steel.

Fasteners:

Stainless steel.

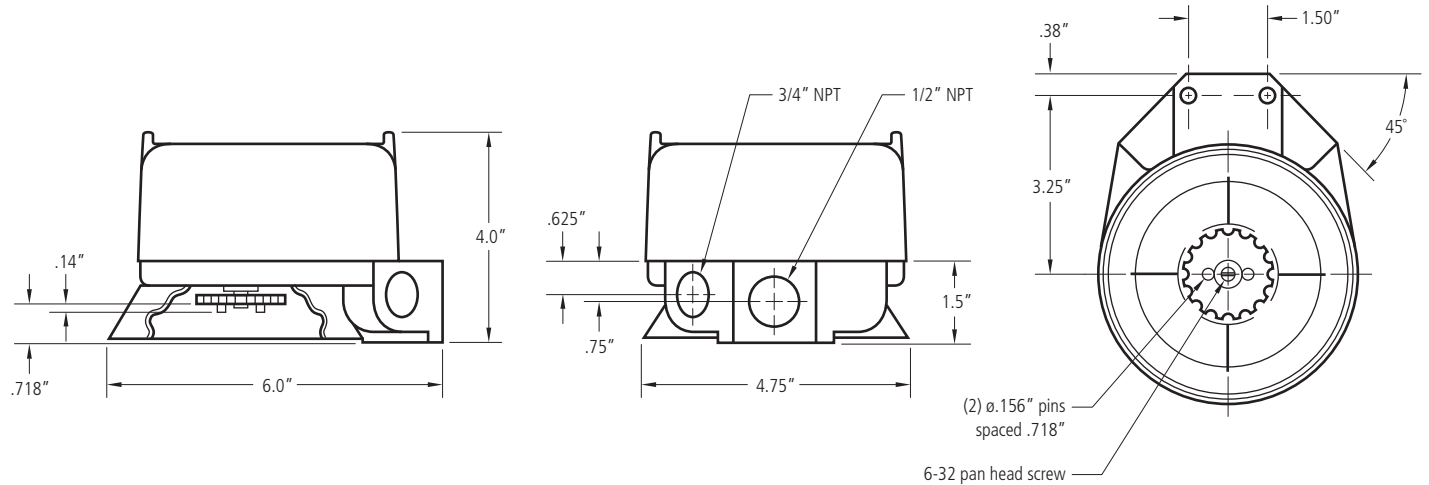
Indicator:

Lexan® polycarbonate.

YH, YO & YE Series

Limit Switch

(Epoxy coated aluminum or Lexan® polycarbonate cover)



YH APPROVALS & RATINGS (ALUMINUM COVER)

- CSA/FM approved.
- Class I Groups* C and D, Div. 1.
- Class I Groups A, B, C and D, Div. 2.
- Class II Groups E, F and G, Div. 1.
- Class II Groups F and G, Div. 2.

YO APPROVALS & RATINGS (LEXAN® COVER)

- CSA/FM approved.
- Class I Groups A, B, C and D, Div. 2.
- Class II Groups F and G, Div. 2.

YE APPROVALS & RATINGS (ALUMINUM COVER)

- CSA/FM approved.
- Class I Groups* C and D, Div. 1 and 2.
- Class II Groups F and G, Div. 1 and 2.

* FM Group B, Div. 1 and 2 approval available.

Some models may not be CSA and FM approved. Please contact factory for details.

MAXX-GUARD PROXIMITY SWITCH FEATURES (YH & YO)

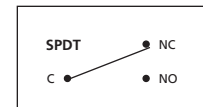
Maxx-Guard hermetically sealed reed switches are suitable for computer input circuits and general purpose applications and have an operating life of 5 million cycles.

Temperature Range:
-4°F to 180°F.

Switch Rating:
0.30 A @ 125 VAC,
0.20 A @ 30 VDC.

Maximum Voltage Drop:
3.5 V @ 10 mA, 6.5 V @ 100 mA.

Wiring Diagram:



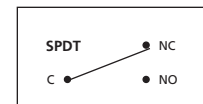
SPDT MECHANICAL SWITCH FEATURES (YE)

Low cost single-pole double-throw mechanical switches with silver contacts are recommended for high power 120 VAC applications and have an operating life of 400,000 cycles. Gold contacts may be used in 24 VDC computer input applications and have an operating life of 100,000 cycles.

Temperature Range:
-4°F to 180°F.

**Switch Rating
(Silver Contacts**):**
10 A @ 125/250 VAC,
0.5 A @ 125 VDC.

Wiring Diagram:



** Not recommended for electrical circuits operating at less than 20 mA @ 24 VDC.

UA & UB Series

Limit Switch



The UA/UB Series solid state proximity switch is a target puck with position indicator, two red LEDs and two solid state switches (N/O and 1 open, 1 closed).

FEATURES

- NEMA-3, 4, 6, 12, 13 and IP67 enclosure.
- 6' cable.
- Designed for NAMUR actuator pad and shaft.

SPECIFICATIONS

Minimum Load Current:
5 mA.

Maximum Load Current:
20 mA.

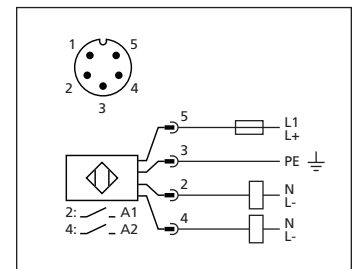
UA & UB SERIES MODEL NUMBERING

Model Number:

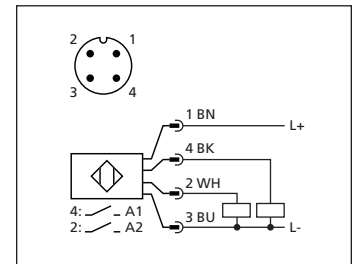
Current: _____
A = AC/DC
B = DC

U X

WIRING DIAGRAM (UA)



WIRING DIAGRAM (UB)



AC Series

Inductive Valve Sensor



FEATURES

- Quick disconnect.
- 2 integrated inductive position sensors with extended addressing mode.
- Sensing range of 4 mm [nf].
- LED switching status display.
- IP67 protection.
- M12 connector.
- Accessories include reinforcement bracket, 2 socket head screws and 2 washers.
- AS-i sensor supply input.

MATERIALS OF CONSTRUCTION

Housing:

PBT and stainless steel.

Connector:

Stainless steel.

TEMPERATURE RANGE

-4°F to 156°F

SPECIFICATIONS

Operating Voltage:

26.5 to 31.6 VDC.

Current Consumption:

< 40 mA.

AS-i Version:

2.1.

AS-i Profile:

S-O.A.F.

I/O Configuration (Hex):

0.

ID Code (Hex):

A.F.

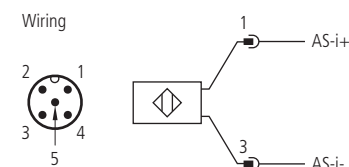
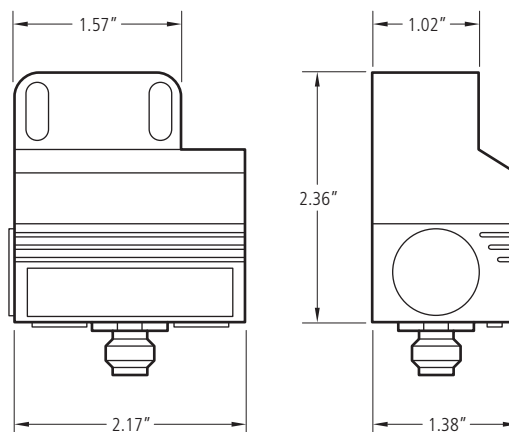
AS-i Certificate:

74901.

EMC:

EN 50295, EN 61000-6-2 .

DIMENSIONS & SPECIFICATIONS



IN Series

Inductive Valve Sensor



FEATURES

- Quick disconnect.
- Sensing range of 4 mm [nf].
- Operating range of up to 3.25 mm.
- Non-latching short circuit protection.
- LED switching status display.
- IP67, II protection.
- 2 x normally open output.

For 5237 & 5331:

- Reverse polarity and overload protection.
- M12 connector.
- DC PNP/NPN electrical design.

For 0117:

- 7/8" connector.
- AC/DC electrical design.

MATERIALS OF CONSTRUCTION

Housing:

PBT and polycarbonate.

Connector:

Stainless steel (5237 & 0017) or white bronze coated brass (5331).

TEMPERATURE RANGE

-13°F to 176°F (5237 & 0117)
-4°F to 176°F (5331)

SPECIFICATIONS

Operating Voltage:

10 to 36 VDC (5237 & 5331),
20 to 140 VAC (47 to 63 Hz)
and 10 to 140 VDC (0117).

Current Rating:

250 mA (5237 & 5331),
200 mA (0117).

Minimum Load Current:

4 mA (5237 & 5331),
5 mA (0117).

Voltage Drop:

< 2.5 V (5237), < 4 V (5331),
< 5 V (0117).

Current Consumption:

< 15 mA (24 V).

Switch Point Drift:

-10 to 10% of SR.

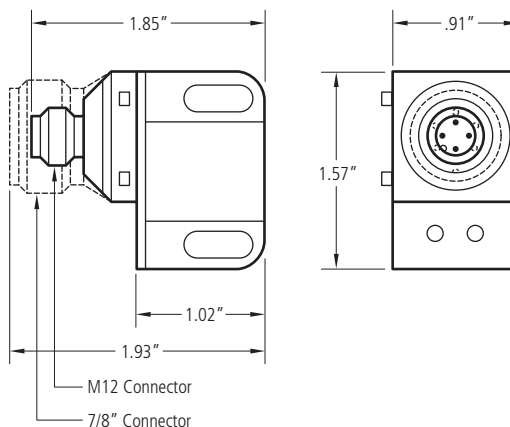
Hysteresis:

-1 to 15% of SR (5237 & 5331),
3 to 15% of SR (0117).

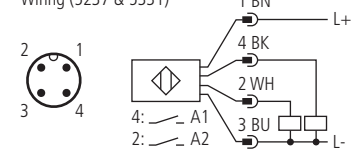
Switching Frequency:

1300 Hz (5237), 250 Hz (5331),
25 Hz (0117).

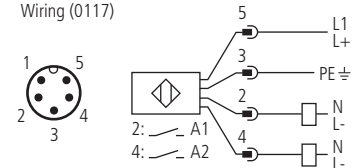
DIMENSIONS & SPECIFICATIONS



Wiring (5237 & 5331)



Wiring (0117)



YX Series

Limit Switch Box



The YX series hazardous location limit switch provides a compact design and cost effective solution for both visual and remote electrical indication of valve/actuator position. The heavy-duty design and wide variety of option make the YX series the ideal multipurpose limit switch for use in NEMA 4, 4X, 7 and 9 applications.

FEATURES

- IP67 weather proof enclosure.
- UL and CUL listed ATEX explosion proof design.
- Environmentally sealed high visibility 3D position indicator.
- Housing conforms to NAMUR VDI/VDE3845 dimensional standards and ISO F05 bolt hole locations to maximize interchangeability and eliminate the need for an additional coupler.
- Easy-Set splined cams for tool-free calibration and positive vibration resistant engagement.
- Unique twin-shaft design for easy and accurate assembly. This also minimizes clearance requirements for cover removal and reinstallation.
- Standard PCB and extra solenoid terminals.
- Many switch options available.

MATERIALS OF CONSTRUCTION

Body:

Die cast aluminum, dichromated and polyester powder coated.

Indicator Dome:

UV resistant V0 polycarbonate.

Shaft:

Stainless steel.

Fasteners:

Stainless steel.

TEMPERATURE RANGE

-13°F to 176°F

YX SERIES

MODEL NUMBERING

Model Number: **YX** X X X X **0** X

Indicator Type: _____

B = 3-way

L = 3-way, L port

T = 3-way, T port

Z = 3-way, T port,
blocked center

Switch Type: _____

01 = Electromech SPDT
Ag plated contacts

03 = Electromech SPDT
Au plated contacts

05 = Electromech DPDT
Ag plated contacts

10 = Proximity SPST

13 = Proximity SPST,
bifurcated

14 = Proximity SPDT

16 = Proximity DPDT

70 = Proximity NAMUR
P+F NJ2-V3-N

71 = Proximity NO
P+F NBB2-V3-US

73 = Proximity PNP NO
P+F NBB3 V3 E2

AS = AS-interface

DA = Electromech two
DPDT, two SPDT*

DB = Electromech two
DPDT, two SPDT**

DC = Electromech SPDT*

DD = Electromech SPDT**

TA = Transmitter, two
mechanical SPDT

TX = Transmitter only

Switch Quantity: _____

1 to 4 according to type

Terminal Strip: _____

0 = Circuit board strip

1 = AS-i terminal connections

Cable Entry: _____

E = Two 1/2" NPT

G = Two 1/2" NPT, one 3/4" NPT

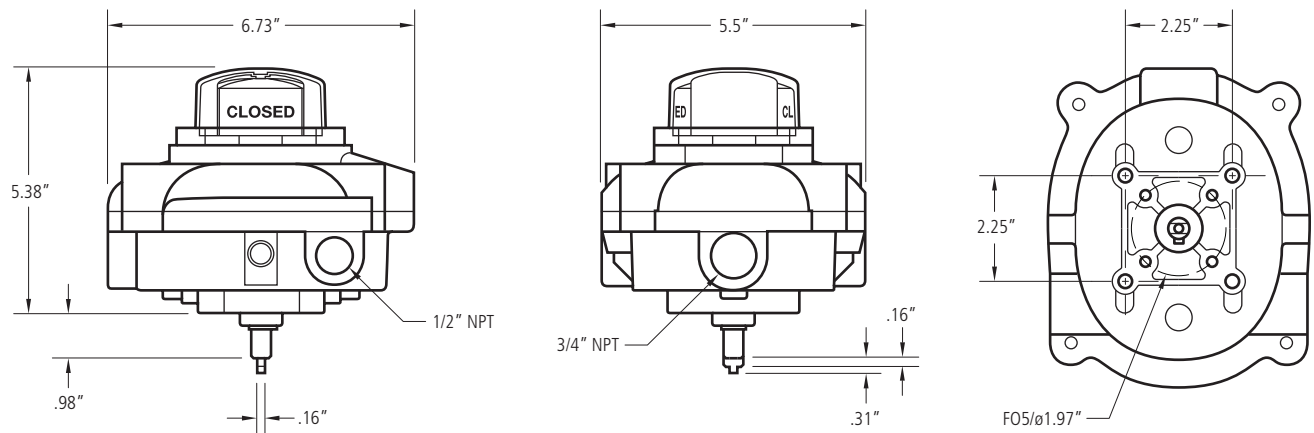
* For double acting.

** For spring return.

YX Series

Limit Switch Box

(Heavy-duty design for hazardous locations)



YX APPROVALS

- Class I Groups C and D, Div. 1.
- Class I Groups A, B, C and D, Div. 2.
- Class II Groups E, F and G, Div. 1.
- Class II Groups F and G, Div. 2.

SM Series

Limit Switch Box



The SM series limit switch box provides a compact design and the most economical solution for both visual and remote electrical indication of rotary valve/actuator position. Integral NAMUR mounting legs provide additional cost savings by eliminating the need for a separate mounting bracket. The switch options available make the SM series suitable for use in NEMA 4, 4X weather proof applications and intrinsically safe applications.

FEATURES

- IP65 weather proof enclosure.
- Compact design.
- Flat or 3D visual position indicator.
- Integral mounting bracket that conforms to NAMUR VDI/VDE3845 dimensional standards.
- Easy-Set splined cams for tool-free calibration and positive vibration resistant engagement.
- Standard PCB and extra solenoid terminals.

MATERIALS OF CONSTRUCTION

Body:

Die cast aluminum, nickel plated.

Cover:

UV resistant V0 polycarbonate.

Shaft:

Reinforced techno polymer.

Fasteners:

Stainless steel.

SM SERIES MODEL NUMBERING

Model Number: **SM** X X X X X

Switch Type: _____

01 = Mechanical SPDT
AS = ASi-lite, 2 inputs,
1 output

Switch Quantity: _____

1 = 1 switch
2 = 2 switches

Terminal Strip: _____

H = Circuit board strip

M4A = 4 pin M12*

P5A = 5 pin Mini-change**

Cable Entry: _____

1 = 1/2" NPT

2 = M20x1.5

Optional: _____

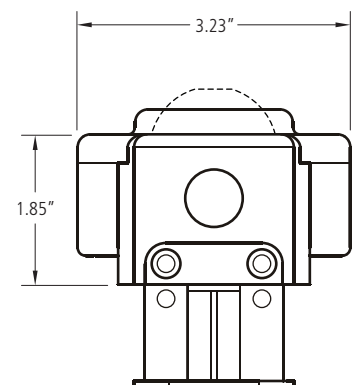
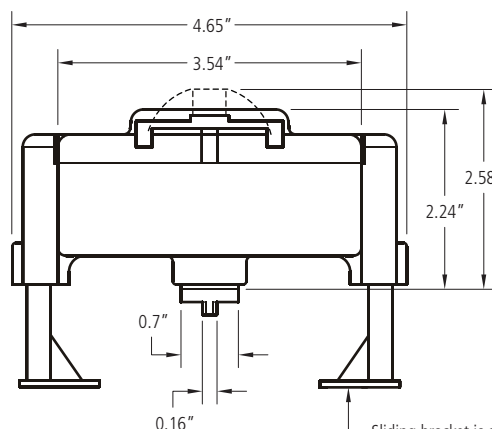
H = 3D visual indicator

* Male, for ASi-lite.

** Male, wire to NO contacts only.

TEMPERATURE RANGE

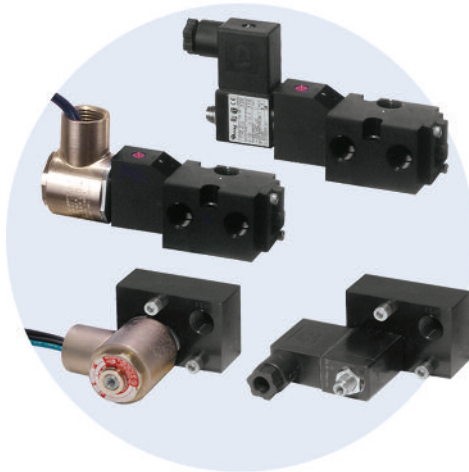
5°F to 176°F



Sliding bracket is adjustable to both 1.18" x 3.15" and 1.18" x 5.12" top pattern, and 0.79", 1.18", 1.58" and 1.97" pinion heights.

Solenoids

Solenoid Valves and Connectors



The Assured Automation E and C series control valve is an inexpensive, simple and effective 3-way (E) or 3/4-way (C) solenoid/pilot valve. They are designed to mount directly to an NAMUR actuator thus reducing cost of tubing, fittings, brackets and labor.

The E series is only available in a 3-way configuration, which is most effective on spring return or fail-safe actuators where high speed open or close is not important. The C series is available in 3-way or 4-way configuration, which can be used on spring return or double acting actuators. Manual overrides (guarded-push to operate) are standard on all C series solenoid/pilot valves.

The B series is only available in a 3-way configuration, which is most effective on spring return or fail-safe actuators and is designed to mount to non-NAMUR actuators.

CV FACTORS & COIL POWER

Model	CV	Connector	Nominal Coil Power	
			AC	DC
B	.06	3	6 VA	5 W
E	.75	1	6 W	7 W
		2	5.6 W	7.2 W
		3 & 4	8.5 W	10.5 W
C	.75	1	6 W	7 W
		2	5.6 W	7.2 W
		3 & 4	8.5 W	10.5 W

SOLENOID MODEL NUMBERING

Model Number: _____

Type: _____

B = 3-way 1/8" G thread*

E = 3-way NAMUR

C = 3/4-way NAMUR

Connector: _____

1 = Weatherproof, NEMA 4/4X, Potted 1/2" Conduit

2 = Explosion Proof, NEMA 4/4X & 7, Potted 1/2" Conduit, UL Listed, CSA Approved

3 = Weatherproof, NEMA 4/4X, Mini DIN, Cord Grip PG9

4 = Weatherproof, NEMA 4/4X, Mini DIN, 1/2" Conduit

5 = Weatherproof, NEMA 4/4X, Mini DIN, 6' Cord Set

6 = Weatherproof, NEMA 4/4X, Mini DIN, 15' Cord Set

Voltage: _____

A = 120 VAC

B = 24 VDC

C = 220 VAC

E = 24 VAC

F = 12 VDC

J = 48 VDC**

* Only available with #3 connector.

** Models E & C only.

CONNECTOR REFERENCE



1



2



3



4



5 & 6

FireBag®

Thermal-activated Shut-off Device for Propane, Natural & Butane Gas



The FireBag® automatically turns off gas supply in the event of fire, preventing explosions and the spreading of fire.

When outside temperature reaches 203°F to 212°F (95°C to 100°C) the metal alloy that keeps plug and cartridge together melts and the spring pressure pushes the plug against the gas opening to close it completely. No fire or heat detectors are required to automatically intercept gas flow.

CERTIFICATIONS

- AGA ANSI Z21.15-CGA 9.1-M97 (certain models)
- CGA ANSI Z21.15-CGA 9.1-M97 (certain models)
- DIN 3586 thermo activated safety device for gas applications
- European UNI EN 1775 Standard for indoor gas installations
- European Directive 90/396/CEE certification for durability in mechanical or thermal stress
- German DVGW TRGI 86/96 Standard for thermo activated locking systems on gas heaters, water heaters & domestic gas fittings
- German Standard Muster-Feuerverordnung (FeuVo v. 02/95 - edition 09/97) for thermo activated devices
- Italian UNI 7129 Ed 2001 Standard for fire protection and gas supply line components

MAXIMUM PRESSURE

72.5 PSI (NPT)
232 PSI (Flanged)

TEMPERATURE RANGE

-4°F to 176°F

MATERIALS OF CONSTRUCTION

Housing and Finishing:
Zinc-plated steel

SPECIFICATIONS

Set-off Temperature:
203°F to 212°F

Heat Resistance:
1,697°F for 60 minutes
at 72.5 PSI (NPT)

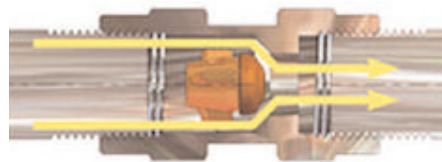
Cv FACTORS

Size	Cv
1/2"	198
3/4"	377
1"	580

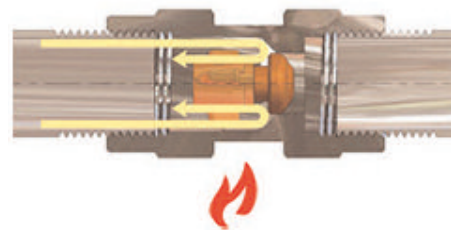
CROSS SECTIONS

The FireBag is triggered when the ambient temperature reaches 212°F, blocking the flow of gas for at least 60 minutes at the temperature of 1,697°F.

Inactive, temperature below 203°F

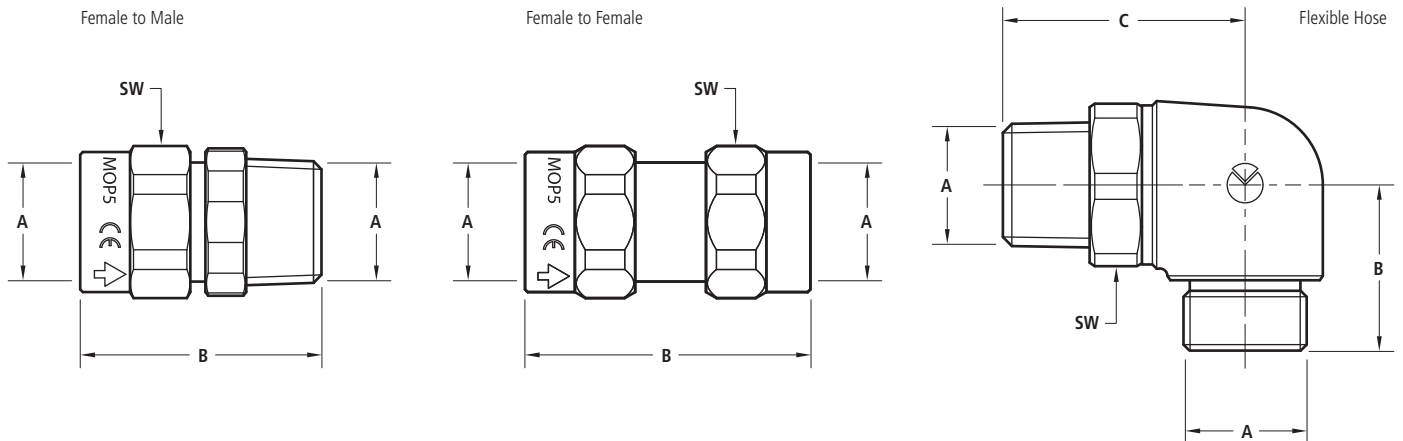


Active, temperature above 212°F



FireBag®

Thermal-activated shut-off device for propane, natural & butane gas
(NPT threaded and flanged connections)

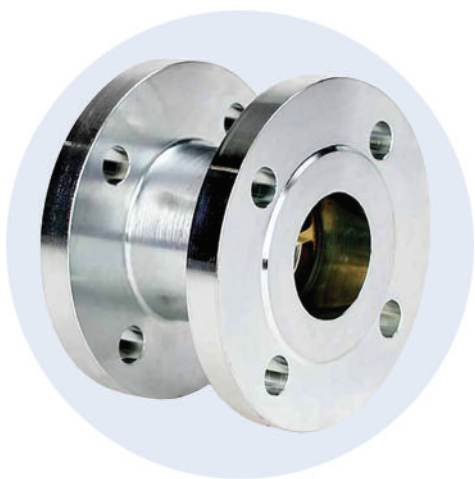


DIMENSIONS & SPECIFICATIONS

Size	SW	Female to Male*			Female to Female*			Flexible Hose			
		A	B	Model No.	A	B	Model No.	A	B	C	Model No.
1/2"	27 mm	0.50"	1.81"	TASK100FM1-NPT	0.50"	2.13"	TASK100FF1-NPT	0.50"	1.18"	1.57"	RT406C00-NPT
3/4"	32 mm	0.75"	1.93"	TASK200FM1-NPT	0.75"	2.40"	TASK200FF1-NPT	-	-	-	-
1"	41 mm	1.00"	2.20"	TASK300FM1-NPT	1.00"	2.72"	TASK300FF1-NPT	-	-	-	-
1-1/4"	50 mm	1.25"	3.54"	TASK400FM1-NPT	1.25"	3.54"	TASK400FF1-NPT	-	-	-	-
1-1/2"	55 mm	1.50"	3.54"	TASK500FM1-NPT	1.50"	3.54"	TASK500FF1-NPT	-	-	-	-
2"	70 mm	2.00"	4.33"	TASK600FM1-NPT	2.00"	4.33"	TASK600FF1-NPT	-	-	-	-

* A model withstanding BIOGAS is available upon request.

ANSI CLASS 150 AVAILABLE ON REQUEST



OTHER PRODUCTS



G2T
(Valve with FireBag)



G4T
(Top Entry)

Economy Series

Economical Digital Flow Meter (Totalizer Only with Reset)



These low-cost digital fuel (aluminum) and water (nylon) flow meters easily install either in-line, at the end of a hose or at the nozzle. The large easy to read display and compact lightweight design makes it easy to handle. A rugged aluminum or nylon housing and sealed electronic circuitry provides years of durable use in almost any condition. Two AAA batteries power the small microprocessor for a year and are very easy to replace.

FEATURES

- Battery operated.
- Flow range: 3-30 GPM.
- Rugged construction.
- Designed for indoor/outdoor use.
- Digital display with large 1/2" tall digits.
- Maximum batch total of 9,999.
- Approximate battery life is 9,000 hours.
- Displays flow totals with reset.

TYPICAL APPLICATIONS

- Fuel transfer pumps.
- Garden hoses.
- Fertilizer trucks.
- Plant process water.
- Cement mixers.
- Pond water feed lines.

MAXIMUM PRESSURE

150 PSI: Nylon
 300 PSI: Aluminum

TEMPERATURE RANGE

14°F to 130°F

MATERIALS OF CONSTRUCTION

Housing:

Aluminum or Nylon.

Rings:

316 stainless steel.

Bearings:

Ceramic.

Shaft:

Tungsten carbide.

Turbine and Supports:

Nylon.

Signal Generator:

Ferrite.

ADDITIONAL SPECIFICATIONS

Repeatability:

± 0.5%.

WEIGHTS & SPECIFICATIONS

Size	Flow Range		Accuracy (% of Reading)	Wt. (lbs.)	Model No.	
	GPM	LPM			Gallons	Liters
Nylon						
1"	3-30	10-100	±2.5	1.1	01N31GM	01N31LM
Aluminum						
1"	3-30	10-100	±2.5	2	01A31GM	01A31LM

A1 Series

Commercial Digital Flow Meter (Rate & 2 Totals, 1 Resettable)



Our economical grade electronic digital meters offer durable, compact, high precision fluid measurement systems at a fraction of the price you'd expect to pay for comparable systems with similar features and benefits.

FEATURES

- Battery operated.
- Flow ranges: 0.3-300 GPM (depending on size).
- Rugged construction.
- Designed for indoor/outdoor use.
- Digital display with large 1/2" tall digits.
- Maximum batch total of 999,999.
- Approximate battery life is 4,000 hours.
- Displays instantaneous flow rate & flow totals (one totalizer is resettable).
- Ability to field calibrate (standard).

TYPICAL APPLICATIONS

- Fuel transfer pumps.
- Lubrication oil.
- Geothermal heating and cooling systems.
- Garden hoses.
- Fertilizer trucks.
- Plant process water.
- Cement mixers.
- Pond water feed lines.

MATERIALS OF CONSTRUCTION

Housing:

Aluminum or Nylon.

Rings:

316 stainless steel.

Bearings:

Ceramic.

Shaft:

Tungsten carbide.

Rotor:

Nylon.

Signal Generator:

Ferrite.

A1 SERIES

MODEL NUMBERING

Model Number: **A1** X X X X X

Electronics (see pg. 2) ———— ↑ ↑ ↑ ↑ ↑

Calibration: ————

GM = Gallons / Minute*

LM = Liters / Minute**

XX = No Computer

Turbine Material & Size: ————

A025 = Aluminum, 1"

Low Flow

A100 = Aluminum, 1"

A200 = Aluminum, 2"

N025 = Nylon, 1"

Low Flow

N100 = Nylon, 1"

X### = Electronics Only***

Fitting Type: ————

N = NPT Female

I = ISO Female

B = BSPP Female****

X = Electronics Only

Packaging: ————

A1 = Standard Low Flow, 1"

A2 = Standard, 2"

B1 = Low Flow, 1", Turbine Only

B2 = 2", Turbine Only

B3 = Electronics Only

C1 = Generic Low Flow, 1"

C2 = Generic, 2"

C3 = Generic, Electronics Only

* NPT only.

** ISO only.

*** Specify turbine housing size.

**** A025 and A100 only.

A1 Series

Commercial Digital Flow Meter

(Aluminum or nylon housing)

PRESSURE RATING

150 PSI: Nylon
300 PSI: Aluminum

TEMPERATURE RANGE

14°F to 130°F

WEIGHTS & SPECIFICATIONS

Size	Type	Flow Range		Repeatability	Accuracy (% of Reading)	Typical K-Factor	Frequency Range	Strainer Size	Wt. (lbs.)	Model No.
		GPM	LPM							
Aluminum Housing										
1"	Paddlewheel	0.3-3	1-11	±1.0%	±5.0*	2,200	11-110 Hz	55 mesh	1.35	A109GMA025NA1
1"	Turbine	3-50	11-190	±0.2%	±1.5	730	36.5-608.3 Hz	28 mesh	1.35	A109GMA100NA1
2"	Turbine	30-300	114-1,135	±0.2%	±1.5	72	36-360 Hz	28 mesh	3.0	A109GMA200NA2
Nylon Housing										
1"	Paddlewheel	0.3-3	1-11	±1.0%	±5.0*	2,200	11-110 Hz	55 mesh	1.0	A109GMN025NA1
1"	Turbine	3-50	11-190	±0.2%	±1.5	730	36.5-608.3 Hz	28 mesh	1.0	A109GMN100NA1

* Depending on installation and fluid type. Field calibration is recommended for best accuracy.

ELECTRONICS CHOICES

Turbine with Local Display

09 = Standard: 2 button display, field configurable (2 totals, 2 calibrations, rate).

Turbine Only

XX = No electronics.

G2 Series

Stainless Steel Industrial Meter (Rate & 2 Totals, 1 Resetable)



Our industrial grade electronic digital meters offer durable, compact, high precision fluid measurement systems at a fraction of the price you'd expect to pay for comparable systems with similar features and benefits.

FEATURES

- Battery operated.
- Flow ranges: 1-200 GPM (depending on size).
- Rugged construction.
- Designed for indoor/outdoor use.
- Digital display with large 1/2" tall digits.
- Maximum batch total of 999,999.
- Approximate battery life is 4,000 hours.
- Displays instantaneous flow rate & flow totals (one totalizer is resetable).
- Ability to field calibrate (standard).

TYPICAL APPLICATIONS

- Clean fluids (free of particulate).
- Fuel transfer pumps.
- Lubrication oil.
- Geothermal heating or cooling systems.
- Fertilizer trucks.
- Plant process fluid.
- Chemical feed lines.

MATERIALS OF CONSTRUCTION

Housing and Rings:
316 stainless steel.

Bearings:
Ceramic.

Shaft:
Tungsten carbide.

Rotor:
PVDF.

Signal Generator:
Ferrite.

G2 SERIES MODEL NUMBERING

Model Number: **G2** X X X X X

Size: _____
S05 = 1/2"
S07 = 3/4"
S10 = 1"
S15 = 1-1/2"
S20 = 2"

Fitting Type: _____
F = 150 lb. ANSI Flange*
I = ISO Female
N = NPT Female
T = Tri-Clamp
X = Electronics Only

Electronics (see page 158)

Calibration: _____
GM = Gallons / Minute
LM = Liters / Minute
XX = No Electronics

Packaging: _____
A = Turbine Only or Turbine with Display**
B = Turbine Only or Turbine with Display***
C = Turbine with Remote Transmitter with or without Turbine Mounted Display
D = 150 lb. ANSI Flange, Turbine with Local Display****
E = 150 lb. ANSI Flange, Turbine with Local Display***; 150 lb. ANSI Flange, Turbine with Remote Transmitter*

* S10, S15 and S20 only.

** S05, S07 and S10 only.

*** S15 and S20 only.

**** S10 only.

G2 Series

Stainless Steel Industrial Grade Meter

(NPT or tri-clamp fittings)

PRESSURE RATING

1500 PSI

TEMPERATURE RANGE

14°F to 140°F

ADDITIONAL SPECIFICATIONS

Repeatability:

± 0.1%.

WEIGHTS & SPECIFICATIONS

Size	Flow Range		Accuracy (% of Reading)	Typical K-Factor	Frequency Range	Strainer Size	Max. Flow		Wrench Flat Size	Wt. (lbs.)	Model No.
	GPM	LPM					GPM	LPM			
NPT											
1/2"	1-10	3.8-37.9	±2.0	2,500	42-420 Hz	55 mesh	15	56.8	1-1/16"	2.0	G2S05N09GMA
3/4"	2-20	7.6-75.7	±1.5	1,100	37-370 Hz	55 mesh	30	113.6	1-5/16"	2.3	G2S07N09GMA
1"	5-50	18.9-190	±1.5	565	47-470 Hz	28 mesh	75	284	1-5/8"	2.6	G2S10N09GMA
1-1/2"	10-100	38-380	±1.0	215	36-360 Hz	55 mesh	150	568	2-3/8"	4.2	G2S15N09GMB
2"	20-200	76-760	±1.0	100	33-330 Hz	28 mesh	300	1136	3"	6.6	G2S20N09GMB
Tri-Clamp											
3/4"	1-10	3.8-37.9	±2.0	2,500	42-420 Hz	55 mesh	15	56.8	-	2.5	G2S05T09GMA
1"	2-20	7.6-75.7	±1.5	1,100	37-370 Hz	55 mesh	30	113.6	-	2.9	G2S07T09GMA
1-1/2"	5-50	18.9-190	±1.5	565	47-470 Hz	28 mesh	75	284	-	3.2	G2S10T09GMA
2"	10-100	38-380	±1.0	215	36-360 Hz	55 mesh	150	568	-	4.8	G2S15T09GMB
2-1/2"	20-200	76-760	±1.0	100	33-330 Hz	28 mesh	300	1136	-	7.2	G2S20T09GMB

ELECTRONICS CHOICES

Turbine with Local Display

09 = Standard: 2 button display, field configurable (2 totals, 2 calibrations, rate).

19 = Vertical mount 2 button display, field configurable (2 totals, 2 calibrations, rate).

Pulse Output (Remote)

41 = Remote pulse out transmitter and sine wave pickup (standard remote sensor option).

43 = Remote pulse out transmitter and turbine mounted display (pulse out sensor option).

GG500 - Display with Pulse Output (Remote)

51 = Sine wave pickup (standard remote sensor option).

52 = Open collector pickup (conditioned signal sensor option).

53 = Turbine mounted display (pulse access sensor option).

GX500 - Display with 4-20 mA Output (Remote)

61 = Sine wave pickup (standard remote sensor option).

62 = Open collector pickup (conditioned signal sensor option).

63 = Turbine mounted display (pulse access sensor option).

GA500 - 4-20 mA Output (Remote)

71 = Sine wave pickup (standard remote sensor option).

72 = Open collector pickup (conditioned signal sensor option).

73 = Turbine mounted display (pulse access sensor option).

Turbine Only

XX = No electronics.

TM Series

Plastic Water Meter



TM Series Water Meters are accurate, economical and designed to last. They are ideal for water processing and irrigation applications. Meters come in seven sizes with three fitting types.

FEATURES

- Easy to install.
- Displays in gallons, liters and cubic feet.
- Indicates Batch, Cumulative Totals and Rate of Flow.
- NPT, spigot and 150 lb. ANSI flange fittings.
- Meets Schedule 80 specifications.
- Lithium battery life is 5 years.
- Non-volatile totals means amounts are retained when batteries are replaced or power is lost.
- One-piece field replaceable turbine assembly.
- Spigot models may be cut to length.
- Flow ranges: 1-800 GPM (depending on size).

TYPICAL APPLICATIONS

- OEM water treatment equipment / skids.
- Sub-metering of facility water usage.
- Waste water treatment equipment.
- Water based cooling systems.
- Chemical feed systems.
- Cooling towers.
- Irrigation systems.

MATERIALS OF CONSTRUCTION

Housing:
PVC.

Rings:
316 stainless steel.

Bearings:
Ceramic (1/2" to 2") or PEEK (3" & 4").

Shaft & Thrust Washers:
Tungsten carbide (1/2" to 2")
or stainless steel (3" & 4").

Rotor & Nose Cone:
PVDF (1/2" to 2") or acetal (3" & 4").

Signal Generator:
Ferrite.

TM SERIES MODEL NUMBERING

Model Number: **TM X - X - X**

Size: _____
050 = 1/2"
075 = 3/4"
100 = 1"
150 = 1-1/2"
200 = 2"
300 = 3"
400 = 4"

Fitting: _____
Blank = Spigot (pipe)
N = NPT (female)
F = Flange (3" & 4" only)

Electronics: _____
Blank = Local display
P = Pulse output
GA = 4-20 mA output,
no display (3" & 4" only)
GG = Pulse output, with display
(3" & 4" only)
GX = 4-20 mA output,
with display (3" & 4" only)
SC = Scaled pulse output
(3" & 4" only)

PRESSURE RATING

225 PSI at 73°F
(135 PSI for CE applications)

TEMPERATURE RANGE

32°F to 140°F

TM Series

Plastic Water Meter

(NPT, spigot and 150 lb. ANSI flange fittings)

WEIGHTS & SPECIFICATIONS

Size	Flow Range		Accuracy (% of Reading)	Wt. (lbs.)		
	GPM	LPM		Spigot (Schedule 80)	NPT	Flange (150 lb. ANSI)
1/2"	1-10	3.8-38	±3.0	0.38	0.55	-
3/4"	2-20	7.6-76	±3.0	0.43	0.67	-
1"	5-50	19-190	±3.0	0.49	0.49	-
1-1/2"	10-100	38-380	±3.0	0.66	1.38	-
2"	20-200	76-760	±3.0	0.78	1.78	-
3"	40-400	151-1514	±3.0	2.40	3.90	5.80
	30-600 extended range	131-2271 extended range				
4"	60-600	227-2271	±3.0	3.70	6.10	9.20
	40-800 extended range	151-2028 extended range				

WM Series

Water Flow Meter



The WM Series water meters are multi-jet (inferential) impeller meters. They measure total flow in gallons. The impeller and magnet are the only moving parts in the measuring chamber. The chamber is located in a strainer basket, which allows for high amounts of impurities to be passed through the meter without affecting its operation. The impeller movement is transferred by a magnetic coupling to the hermetically sealed register.

FEATURES

- Proven multi-jet water meter design.
- Hermetically sealed dry dial protected from the elements, won't discolor or fade.
- Integral strainer in measuring chamber protects measuring components from foreign debris.
- Tempered glass lens for continued readability.
- Hinged lens cover to protect lens and register from damage.
- Magnetic drive to eliminate potential leak point.
- Easy to read register display with large clear digits.
- Odometer measures in gallons up to 9,999,999 (99,999,999 for WM150/200).
- Needle displays 10 gallons per rotation in 1/10th gallon increments with full gallon numbers. (100 gallons per rotation in 1 gallon increments with 10 gallon numbers for WM150/200)
- Low flow indicator.
- Frost resistant forged bronze body.
- Horizontal or vertical installation.
- Connections are external non-tapered meter threading (comes with Male NPT thread adapters).

WM SERIES MODEL NUMBERING

Model Number: **WM X X**

Body x Connection Size: **WM X X**

50 = 5/8" x 1/2"

75 = 5/8" x 3/4"

7575 = 3/4" x 3/4"

100 = 1" x 1"

150 = 1-1/2" x 1-1/2"

200 = 2" x 2"

Optional:

Output: **PO** = Dry Contact Reed Switch

Pulse Output*

* Not available on WM75, use WM7575.

MAXIMUM PRESSURE

150 PSI

TEMPERATURE RANGE

Up to 100°F

MATERIALS OF CONSTRUCTION

Housing:

Epoxy coated forged bronze.

SPECIFICATIONS

Accuracy:

± 1.5%.

DIMENSIONS, WEIGHTS & ADDITIONAL SPECIFICATIONS

Body Size	Conn. Size	Dimensions			Flow (GPM)		Wt. (lbs.)	Model No.
		Length	Width	Height	Low	Max		
5/8"	1/2"	7.500	3.750	4.125	0.125	20	4	WM50
5/8"	3/4"	7.500	3.750	4.125	0.250	25	4	WM75
3/4"	3/4"	9.000	3.750	4.125	0.250	30	5	WM7575
1"	1"	10.750	4.125	3.875	0.500	50	5	WM100
1-1/2"	1-1/2"	12.625	5.375	6.750	1.500	100	11	WM150
2"	2"	15.250	5.750	7.625	2.000	160	17	WM200

WM Series Multi-Jet Cold Water Meters

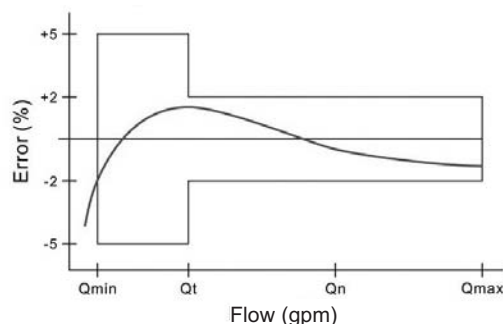
WM Series water meters use the widely accepted multi-jet principle, as a gear train drives the register totalizer dials. For pulse output meters, a reed switch sensor is attached to the outside of the lens and detects a magnet arm that has replaced one of the dial pointers. The reed switch output is a dry contact closure and does not require power.



Main Technical Data

Nominal diameter	DN		050 - 1/2"	075 - 3/4"	100 - 1"	150 - 1 1/2"	200 - 2"
Maximum flow rate	US gpm	Qmax	13.2	22	30.8	88	132
Nominal flow rate	US gpm	Qn	6.6	11	15.4	44	66
Transition flow rate	US gpm	Qt	0.53	0.88	1.23	3.52	5.3
Minimum flow rate	US gpm	Qmin	0.133	0.22	0.31	0.88	1.32
Minimum reading	US gallon		0.01	0.01	0.01	0.1	0.1
Minimum graduation	US gallon		0.005	0.005	0.005	0.05	0.05

Accuracy Curve



Specifications

Temperature	105° F (40° C) max	
Pressure	150 psi operating	
Materials	Body	Cast bronze
	Internals	Engineered thermoplastic
	Magnet	Alnico
Accuracy	+/- 1.5% of reading	
Sensor	Reed switch	Totalizer only
Maximum Current	20 mA	n/a
Maximum Voltage	24 Vdc or Vac	n/a
Cable Length	12' (4m) std 2000' max run	n/a

Model Codes - How to Order

WM2 - 075 - R/10P

Examples: WM2-075-R/10G is a 3/4" meter with a pulse output (reed switch) sensor with a pulse rate of 10 gallons/pulse
WM2-100 is a 1" meter with totalizer only

Size

050 = 1/2"

075 = 3/4"

100 = 1"

150 = 1 1/2"

200 = 2"

Pulse Rate (if applicable)

R/20P = 20 pulse/gal only in 1/2", 3/4" & 1"

R/10P = 10 pulse/gal only in 1/2", 3/4" & 1"

R/4P = 4 pulse/gal

R/2P = 2 pulse/gal

R/1P = 1 pulse/gal

R/5G = 5 gal/pulse

R/10G = 10 gal/pulse

R/50G = 50 gal/pulse

R/100G = 100 gal/pulse

Totalizer only meter would have nothing after the size designation

WM Series Multi-Jet Lead-Free Water Meters

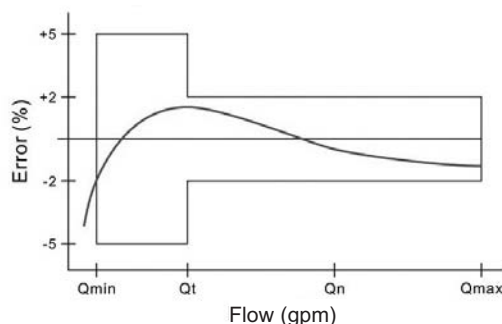
WM Series water meters use the widely accepted multi-jet principle, as a gear train drives the register totalizer dials. For pulse output meters, a reed switch sensor is attached to the outside of the lens and detects a magnet arm that has replaced one of the dial pointers. The reed switch output is a dry contact closure and does not require power.



Main Technical Data

Nominal diameter	DN		050 - 1/2"	075 - 3/4"	100 - 1"	150 - 1 1/2"	200 - 2"
Maximum flow rate US gpm	Qmax		13.2	22	30.8	88	132
Nominal flow rate US gpm	Qn		6.6	11	15.4	44	66
Transition flow rate US gpm	Qt		0.53	0.88	1.23	3.52	5.3
Minimum flow rate US gpm	Qmin		0.133	0.22	0.31	0.88	1.32
Minimum reading US gallon			0.01	0.01	0.01	0.1	0.1
Minimum graduation US gallon			0.005	0.005	0.005	0.05	0.05

Accuracy Curve



Specifications

Temperature	105° F (40° C) max
Pressure	150 psi operating
Materials	Body/cplgs C89833 bronze alloy*
	Internals Engineered thermoplastic
	Magnet Alnico
Accuracy	+/- 1.5% of reading
Sensor	Reed switch
Maximum Current	20 mA
Maximum Voltage	24 Vdc or Vac
Cable Length	12' (4m) std (2000' max run)

*C89833 Bronze Alloy-Lead composition is less than 0.1% by weight

Model Codes - How to Order

WM - LF - 075 - R/10P

Examples: WM-LF-075-R/10G is a 3/4" meter with a pulse output (reed switch) sensor with a pulse rate of 10 gallons/pulse
WM-LF-100 is a 1" meter with totalizer only

Size

050 = 1/2"

075 = 3/4"

100 = 1"

150 = 1 1/2"

200 = 2"

Pulse Rate (if applicable)

R/20P = 20 pulse/gal only in 1/2", 3/4" & 1"

R/10P = 10 pulse/gal only in 1/2", 3/4" & 1"

R/4P = 4 pulse/gal

R/2P = 2 pulse/gal

R/1P = 1 pulse/gal

R/5G = 5 gal/pulse

R/10G = 10 gal/pulse

R/50G = 50 gal/pulse

R/100G = 100 gal/pulse

Totalizer only meter would have nothing after the size designation

WM Series Multi-Jet Cold Water Meters Plastic Body

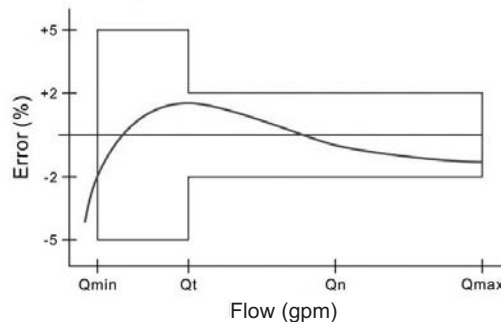
WM Series water meters use the widely accepted multi-jet principle, as a gear train drives the register totalizer dials. For pulse output meters, a reed switch sensor is attached to the outside of the lens and detects a magnet arm that has replaced one of the dial pointers. The reed switch output is a dry contact closure and does not require power.



Main Technical Data

Nominal diameter		DN	050 - 1/2"	075 - 3/4"	100 - 1"
Maximum flow rate	US gpm	Qmax	20	20	50
Nominal flow rate	US gpm	Qn	10	10	25
Transition flow rate	US gpm	Qt	1	1	3
Minimum flow rate	US gpm	Qmin	6.25	0.25	0.75
Minimum reading	US gallon		0.01	0.01	0.1
Minimum graduation	US gallon		0.005	0.005	0.1

Accuracy Curve



Specifications

Temperature		105° F (40° C) max
Pressure		150 psi operating
Materials	Body	FRP-Reinforced polyamide
	Internals	Engineered thermoplastic
	Magnet	Alnico
Accuracy		+/- 1.5% of reading
Sensor	Reed switch	Totalizer only
Maximum Current	20 mA	n/a
Maximum Voltage	24 Vdc or Vac	n/a
Cable Length	12' (4m) std	n/a
	2000' max run	

Model Codes - How to Order

WM - P - 075 - R/10P			<u>Pulse Rate (if applicable)</u> R/20P = 20 pulse/gal only in 1/2" & 3/4" R/10P = 10 pulse/gal only in 1/2" & 3/4" R/4P = 4 pulse/gal R/2P = 2 pulse/gal R/1P = 1 pulse/gal R/5G = 5 gal/pulse R/10G = 10 gal/pulse R/50G = 50 gal/pulse R/100G = 100 gal/pulse Totalizer only meter would have nothing after the size designation
		<u>Size</u> 050 = 1/2" 075 = 3/4" 100 = 1"	
Examples: WM-P-075-R/10G is a 3/4" meter with a pulse output (reed switch) sensor with a pulse rate of 10 gallons/pulse WM-P-100 is a 1" meter with totalizer only			

WM Series Multi-Jet Cold Water Meters Plastic Body

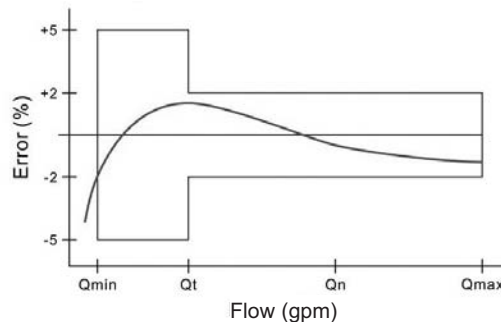
WM Series water meters use the widely accepted multi-jet principle, as a gear train drives the register totalizer dials. For pulse output meters, a reed switch sensor is attached to the outside of the lens and detects a magnet arm that has replaced one of the dial pointers. The reed switch output is a dry contact closure and does not require power.



Main Technical Data

Nominal diameter		DN	050 - 1/2"	075 - 3/4"	100 - 1"
Maximum flow rate	US gpm	Q _{max}	20	20	50
Nominal flow rate	US gpm	Q _n	10	10	25
Transition flow rate	US gpm	Q _t	1	1	3
Minimum flow rate	US gpm	Q _{min}	6.25	0.25	0.75
Minimum reading	US gallon		0.01	0.01	0.1
Minimum graduation	US gallon		0.005	0.005	0.1

Accuracy Curve



Specifications

Temperature		105° F (40° C) max
Pressure		150 psi operating
Materials	Body	FRP-Reinforced polyamide
	Internals	Engineered thermoplastic
	Magnet	Alnico
Accuracy		+/- 1.5% of reading
Sensor		Reed switch Totalizer only
Maximum Current		20 mA n/a
Maximum Voltage		24 Vdc or Vac n/a
Cable Length		12' (4m) std n/a
		2000' max run

Model Codes - How to Order

WM - P - 075 - R/10P			<u>Pulse Rate (if applicable)</u> R/20P = 20 pulse/gal only in 1/2" & 3/4" R/10P = 10 pulse/gal only in 1/2" & 3/4" R/4P = 4 pulse/gal R/2P = 2 pulse/gal R/1P = 1 pulse/gal R/5G = 5 gal/pulse R/10G = 10 gal/pulse R/50G = 50 gal/pulse R/100G = 100 gal/pulse Totalizer only meter would have nothing after the size designation
		<u>Size</u> 050 = 1/2" 075 = 3/4" 100 = 1"	
Examples: WM-P-075-R/10G is a 3/4" meter with a pulse output (reed switch) sensor with a pulse rate of 10 gallons/pulse WM-P-100 is a 1" meter with totalizer only			

WM Series Multi-Jet Cold Water Meters Plastic Body

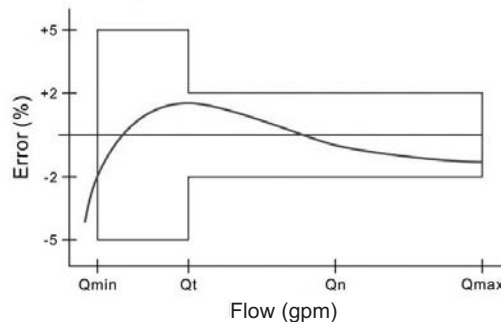
WM Series water meters use the widely accepted multi-jet principle, as a gear train drives the register totalizer dials. For pulse output meters, a reed switch sensor is attached to the outside of the lens and detects a magnet arm that has replaced one of the dial pointers. The reed switch output is a dry contact closure and does not require power.



Main Technical Data

Nominal diameter		DN	050 - 1/2"	075 - 3/4"	100 - 1"
Maximum flow rate	US gpm	Qmax	20	20	50
Nominal flow rate	US gpm	Qn	10	10	25
Transition flow rate	US gpm	Qt	1	1	3
Minimum flow rate	US gpm	Qmin	6.25	0.25	0.75
Minimum reading	US gallon		0.01	0.01	0.1
Minimum graduation	US gallon		0.005	0.005	0.1

Accuracy Curve



Specifications

Temperature		105° F (40° C) max
Pressure		150 psi operating
Materials	Body	FRP-Reinforced polyamide
	Internals	Engineered thermoplastic
	Magnet	Alnico
Accuracy		+/- 1.5% of reading
Sensor	Reed switch	Totalizer only
Maximum Current	20 mA	n/a
Maximum Voltage	24 Vdc or Vac	n/a
Cable Length	12' (4m) std	n/a
	2000' max run	

Model Codes - How to Order

WM - P - 075 - R/10P			

WM Series Multi-Jet Lead-Free Water Meters

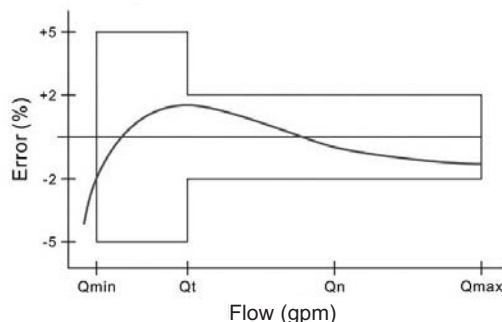
WM Series water meters use the widely accepted multi-jet principle, as a gear train drives the register totalizer dials. For pulse output meters, a reed switch sensor is attached to the outside of the lens and detects a magnet arm that has replaced one of the dial pointers. The reed switch output is a dry contact closure and does not require power.



Main Technical Data

Nominal diameter	DN		050 - 1/2"	075 - 3/4"	100 - 1"	150 - 1 1/2"	200 - 2"
Maximum flow rate US gpm	Qmax		13.2	22	30.8	88	132
Nominal flow rate US gpm	Qn		6.6	11	15.4	44	66
Transition flow rate US gpm	Qt		0.53	0.88	1.23	3.52	5.3
Minimum flow rate US gpm	Qmin		0.133	0.22	0.31	0.88	1.32
Minimum reading US gallon			0.01	0.01	0.01	0.1	0.1
Minimum graduation US gallon			0.005	0.005	0.005	0.05	0.05

Accuracy Curve



Specifications

Temperature	105° F (40° C) max
Pressure	150 psi operating
Materials	Body/cplgs C89833 bronze alloy*
	Internals Engineered thermoplastic
	Magnet Alnico
Accuracy	+/- 1.5% of reading
Sensor	Reed switch
Maximum Current	20 mA
Maximum Voltage	24 Vdc or Vac
Cable Length	12' (4m) std (2000' max run)

*C89833 Bronze Alloy-Lead composition is less than 0.1% by weight

Model Codes - How to Order

WM - LF - 075 - R/10P

Examples: WM-LF-075-R/10G is a 3/4" meter with a pulse output (reed switch) sensor with a pulse rate of 10 gallons/pulse
WM-LF-100 is a 1" meter with totalizer only

Size

050 = 1/2"

075 = 3/4"

100 = 1"

150 = 1 1/2"

200 = 2"

Pulse Rate (if applicable)

R/20P = 20 pulse/gal only in 1/2", 3/4" & 1"

R/10P = 10 pulse/gal only in 1/2", 3/4" & 1"

R/4P = 4 pulse/gal

R/2P = 2 pulse/gal

R/1P = 1 pulse/gal

R/5G = 5 gal/pulse

R/10G = 10 gal/pulse

R/50G = 50 gal/pulse

R/100G = 100 gal/pulse

Totalizer only meter would have nothing after the size designation

LM Series

Lube Oil Flow Meter



The LM Series lube meters are positive displacement meters. They are compact in design and provide exceptional reliability. They are perfect for metering oil. They measure Batch, Reset Total, Non-reset Total and Flow Rate in either gallons, liters, pints, or quarts. These meters are designed with oval rotors for optimum accuracy. Pulse output and digital display models are available.

LM50D FEATURES

- Digital display with large 1/2 " tall digits.
- Two buttons.
- Powered by two AAA alkaline batteries..
- Digital display with large 1/2 " tall digits.
- User selectable measurement options.

LM50P FEATURES

- Pulse output.
- Reed Switch or Hall Effect

TYPICAL APPLICATIONS

- An affordable solution for bearing oil.

MAXIMUM PRESSURE

1500 PSI (103.5 bar)

TEMPERATURE RANGE

23°F to 131°F

MATERIALS OF CONSTRUCTION

Housing:

Aluminum.

Wetted Parts:

Acetal, Aluminum, Nitril, Steel.

SPECIFICATIONS

Connections:

1/2 " NPT.

Flow Range:

0.26 to 8 GPM (1 to 30.2 LPM).

Viscosity Range:

Up to 1000 cps.

Accuracy:

± 0.5%.

09 Computer

Electronic Choice: Local Display



Choose the local display for G2 and GM Series meters. Commonly used features are preprogrammed in the Computer Display. The 09 Computer configuration provides a high degree of customization, matching customers' exact needs.

Using a password-protected configuration process you can enable additional features. Assured Automation's Customer Service can provide the password and instructions to unlock and reset configuration settings. User Configuration features include:

- Totalizers/Modes Enabled (Cumulative Total, Batch 2 Total, Flowrate Mode).
- Flowrate Timebase (Units per Minutes, Hours and Days).
- Factory Calibration Curve Units Enabled – Gallons, Imperial Gallons, Liters, Quarts, Ounces, Cubic Feet, Cubic Centimeters, Cubic Meters or Barrels (42 gal.).
- Dispense/Display or K-Factor Entry Calibration.

FEATURES

- 2 Totals (Batch - Resettable, Cumulative - Not Resettable).
- Flowrate display updates every 5 seconds, readout is in units/minute.
- Factory Calibration in gallons and liters is standard. Can be field calibrated to adjust to various fluid thickness.
- Correction calibration lets end user calibrate by $\pm$ percent off.
- Small, compact and totally self contained with an internal power supply.
- Non-volatile totals means amounts are retained when batteries are replaced or power is lost.
- Lithium battery life: 5 years.

STANDARD FACTORY CONFIGURATION

2 Totals (1 Resettable, 1 Cumulative), Factory Calibration in gallons and litres, User Calibration and Rate of Flow Indication.

COMPUTER ELECTRONICS

09 Computer fits all A1, TM and G2 metes. Standard Display fits GM Series meters.

FIELD CALIBRATION

Field calibrate by user. Standard Method: Correction Factor. Six adjustable digits. Can be reconfigured to K-factor entry.

TEMPERATURE RANGE

0°F to 140°F (operation)
-40°F to 158°F (storage)

SPECIFICATIONS

Totalizing Registers:

0 to 3 available

K-Factor Limits:

Minimum: .01 pulses/unit
Maximum: 999,999 pulses/unit

Readout Totals:

LCD with floating decimal
Minimum: 0.01 units
Maximum: 999,999 units (6 digits)

Input Pulse Rate:

Minimum: DC (0 Hz) for Pulse-in, approx. 10 Hz for Coil
Maximum: approx. 1,000 Hz

Internal Power Supply:

Turbine: 2 Lithium batteries at 3 volts each
Oval Gear: 9 volt battery

Optional Power Supply:

Turbine: 7 to 30 VDC
Oval Gear: 10 to 18 VDC

APPROVALS & CERTIFICATIONS

- CSA certified.
- CE approved.
- ATEX 95 equipment directive 94/9/EC certified.

GA500 / GA510 / 7 Series

Electronic Choice: 4-20 mA Output



The GA500 is a remote mount 4-20 mA Output Transmitter without display. Choose the GA510 when a local mount is needed.

FEATURES

- Provides communication with process control equipment.
- Works with G Series, G2 turbine meters and GM oval gear meters.
- Now available with lockout feature.
- Microprocessor-based electronics have extremely low power requirements.
- Easy to set 4-20 mA endpoints under actual flow conditions.
- A signal conditioner with industry standard current loop output.
- Easily mounted on pipe or wall.

SPECIFICATIONS

Primary Output:

Loop (4-20 mA or 0-20 mA): 1.5 mA (minimum), 25 mA (maximum)

Auxiliary Outputs 0-5 V:

Single Ended: 0.1 V (minimum), 4.9 V (maximum)

Pulse-Out:

Maximum "OFF" voltage: 60 V

Maximum "ON" current: 200 mA

Maximum "ON" voltage drop: < 0.5 V @ 200 mA

Electrical:

Strain Relief: Hubble PG7

Strain Relief Thread: Female 1/2-20 UNF-2B

Cable (500 Series only): Belden 9363 (20 ft.)

Power Supply:

2-wire, loop powered

Voltage supply (minimum): 8.5 VDC

Voltage supply (maximum): 35 VDC

Input Options:

Hall Effect, Reed Switch, Open Collector or Low Level Sine Wave

Frequency Input:

Low Level Coil (LLC): 0.25-1000 Hz

High Level Low Frequency: 0.25-150 Hz

High Level High Frequency: 0.25-1000 Hz

Optically Isolated HLLF: w/2500 V optical isolation

Optically Isolated HLHF: w/2500 V optical isolation

TEMPERATURE RANGE

32°F to 140°F

ADDITIONAL SPECIFICATIONS

Accuracy:

± 0.1% of reading

Enclosure Rating:

NEMA 4X / IP55

APPROVALS & CERTIFICATIONS

- CE approved.

GG500 / GG510 / 5 Series

Electronic Choice: Display With Pulse Output



The GG500 is a remote mount Pulse-Out Transmitter with battery powered display. Choose the GG510 when a local mount is needed.

FEATURES

- Provides communication with process control equipment.
- Works with G Series, G2 turbine meters and GM oval gear meters.
- Industry Standard Output: Unscaled Pulse.
- Easily mounted on pipe or wall.

SPECIFICATIONS

Primary Output:

Open Collector (NPN)

Pulse-Out:

Maximum "OFF" voltage: 60 V

Maximum "ON" current: 200 mA

Maximum "ON" voltage drop: < 0.5 V @ 200 mA

Electrical:

Strain Relief: Hubble PG7

Strain Relief Thread: Female 1/2-20 UNF-2B

Cable (500 Series only): Belden 9363 (20 ft.)

Power Supply:

9-volt battery or externally powered

Voltage supply (minimum): 7 VDC

Voltage supply (maximum): 30 VDC

Input Options:

Hall Effect, Reed Switch, Open Collector or Low Level Sine Wave

Frequency Input:

Low Level Coil (LLC): 0-1000 Hz

High Level Low Frequency: 0-150 Hz

High Level High Frequency: 0-1000 Hz

TEMPERATURE RANGE

14°F to 140°F

ADDITIONAL SPECIFICATIONS

Accuracy:

± 0.1% of reading

Enclosure Rating:

NEMA 4X / IP55

Calibratable:

K-Factor Entry

APPROVALS & CERTIFICATIONS

- CE approved.

GX500 / GX510 / 6 Series

Electronic Choice: Display With 4-20 mA Output



The GX500 is a remote mount 4-20 mA Output Transmitter with display. Choose the GX510 when a local mount is needed.

FEATURES

- Provides communication with process control equipment.
- Works with G Series, G2 turbine meters and GM oval gear meters.
- Now available with lockout feature.
- Microprocessor-based electronics have extremely low power requirements.
- Easy to set 4-20 mA endpoints under actual flow conditions.
- A signal conditioner with industry standard current loop output.
- Easily mounted on pipe or wall.

SPECIFICATIONS

Primary Output:

Loop (4-20 mA or 0-20 mA): 1.5 mA (minimum), 25 mA (maximum)

Auxiliary Outputs 0-5 V:

Single Ended: 0.1 V (minimum), 4.9 V (maximum)

Pulse-Out:

Maximum "OFF" voltage: 60 V

Maximum "ON" current: 200 mA

Maximum "ON" voltage drop: < 0.5 V @ 200 mA

Electrical:

Strain Relief: Hubble PG7

Strain Relief Thread: Female 1/2-20 UNF-2B

Cable (500 Series only): Belden 9363 (20 ft.)

Power Supply:

2-wire, loop powered

Voltage supply (minimum): 8.5 VDC

Voltage supply (maximum): 35 VDC

Input Options:

Hall Effect, Reed Switch, Open Collector or Low Level Sine Wave

Frequency Input:

Low Level Coil (LLC): 0.25-1000 Hz

High Level Low Frequency: 0.25-150 Hz

High Level High Frequency: 0.25-1000 Hz

Optically Isolated HLLF: w/2500 V optical isolation

Optically Isolated HLHF: w/2500 V optical isolation

TEMPERATURE RANGE

32°F to 140°F

ADDITIONAL SPECIFICATIONS

Accuracy:

± 0.1% of reading

Enclosure Rating:

NEMA 4X / IP55

Calibratable:

K-Factor Entry

APPROVALS & CERTIFICATIONS

- CE approved.

SC500 / SC510 / 8 Series

Electronic Choice: Scaled Pulse Output



This Scaled Pulse Module is a switch-programmable multi-stage counter/divider with multiple inputs. The module provides selectable K-Factor to convert input frequency to scaled pulse output. The SC500 connects via a 20 foot input cable. The SC510 connects directly to the 1 inch MNPT conduit connector.

FEATURES

- Provides communication with process control equipment.
- Works with G Series, G2 and A1 turbine meters, and GM oval gear meters.
- Easily mounted on pipe or wall.

SPECIFICATIONS

Primary Output:

Open Collector (NPN)

Electrical:

Strain Relief: Two ports (500 Series only), one port and one threaded plug (510 Series only)

Cable (500 Series only): Belden 9363 (20 ft.)

Power Supply:

DC powered 5 to 30 VDC

Input Options:

Hall Effect, Reed Switch, Open Collector or Low Level Sine Wave

Frequency Input:

Low Level Coil (LLC): 0-1500 Hz

High Level Low Frequency: 0-150 Hz

High Level High Frequency: 0-1500 Hz

Accuracy:

± 0.1% of reading

TEMPERATURE RANGE

-40°F to 185°F

APPROVALS & CERTIFICATIONS

- CE approved.

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