



### B51-Series Industrial Butterfly Valve

Used in industrial applications when you need a valve for isolation or control of the flow of product. The B51-series valve is a resilient seated butterfly valve available with a pneumatic or electric actuator and a variety of control options.

They are found in the industrial market in various applications.

#### Certifications

- CE, NSF/ANSI 61, NSF/ANSI 372, CRN
- Conforms to MSS-SP-67, MSS-SP-25, API-609

#### Sizes

- 1-1/2" to 12" (larger sizes available upon request)

#### Features

- Wafer or lug type (install between standard ANSI class 125-150 flanges)
- Cartridge seat design
- Dead-end service
- Designed for blowout-proof service

#### Specifications

- Standard connection: wafer and lug
- Valve data
  - Maximum pressure: **200 PSI**
  - Maximum operating temperatures
    - EPDM: **-40°F to 275°F (-40°C to 135°C)**
    - FKM: **0°F to 300°F (-17°C to 148°C)**
    - Nitrile rubber: **10°F to 180°F (-12°C to 82°C)**
    - PTFE over EPDM: **-4°F to 300°F (-20°C to 148°C)**
  - Maximum ambient temperature: **-40°F to 300°F (-40°C to 148°C)**
- Actuator: standard ISO 5211
- Materials of construction
  - Product contact components: nickel-plated ductile iron, CF8M, aluminum bronze, and nylon
  - Non-product contact metal components: ductile iron, CF8M
  - Product contact seals: PTFE, EPDM, nitrile rubber, FKM



### B51-Series Industrial Butterfly Valve - Part Number Key

B51-Series Industrial Butterfly Valve Part Number Key Example: B5120A150L- <u>  </u>		Series	Body	Disc	Seat Material	Size	Ends	Handle
		B51	2	0	A	150	L	-
<b>Series</b>	<b>Code</b>							
B51	B51							
<b>Body</b>	<b>Code</b>							
Ductile iron	2							
Stainless steel (CF8M)	3							
<b>Disc</b>	<b>Code</b>							
Stainless steel (CF8M)	0							
Nickel-plated ductile iron	1							
Nylon coated ductile iron*	2							
AL bronze	3							
304 SS mirror polish	4							
Undercut stainless steel	5							
PTFE/stainless steel	6							
<b>Seat Material</b>	<b>Code</b>							
Food grade EPDM	A							
Nitrile rubber	B							
EPDM	E							
PTFE backed EPDM	P							
Silicone	S							
FKM	V							
<b>Size</b>	<b>Code</b>							
1-1/2" **	150							
2"	200							
2-1/2"	250							
3"	300							
4"	400							
5"	500							
6"	600							
8"	800							
10"	1000							
12"	1200							
<b>Ends</b>	<b>Code</b>							
Lug	L							
Wafer	W							
<b>Handle</b>	<b>Code</b>							
No handle	blank							
Multi-position handle ***	C							
Gear operator	G							
Standard with lock plate	CL							
Multi-position stainless handle ***	CS							

\* Only available with stainless steel body

\*\* Only available in wafer end

\*\*\* Only available up to 8"

## B51-Series Industrial Butterfly Valve - Actuated Part Number Key

B51-Series Actuated Industrial Butterfly Valve Part Number Key Example: 5L20B151XX00XX1		Valve Style	Body Material	Disc Material	Seat Material	Size
		5L	2	0	B	15
<b>B51 Valve Style</b>	<b>Code</b>					
Lug	5L					
Wafer	5W					
<b>Body Material</b>	<b>Code</b>					
Ductile iron	2					
Stainless steel	3					
<b>Disc Material</b>	<b>Code</b>					
316 stainless steel	0					
Nickel plated ductile iron	1					
Nylon 11 coated ductile iron	2					
Aluminum bronze	3					
Polished 316 stainless steel	4					
PTFE coated 316 stainless steel	5					
<b>Seat Material</b>	<b>Code</b>					
Nitrile rubber	B					
FKM	V					
EPDM	E					
PTFE over EPDM	P					
Black EPDM food grade	A					
<b>Size</b>	<b>Code</b>					
1-1/2"	15					
2"	20					
2-1/2"	25					
3"	30					
4"	40					
5"	50					
6"	60					
8"	80					
10"	10					
12"	12					

Continue part number selection by following column 1 or 2 on page 5.

## B51-Series Industrial Butterfly Valve - Actuated Part Number Key

1. Pneumatic Actuator or Spring Return Manual Handle					2. Electric Actuator			
Actuator	Actuator Options	Feedback	Control	Valve Operation	Actuator	Voltage	Option 1	Option 2
1	XX	00	XX	1	E	B	1	1
<b>Actuator</b>					<b>Code</b>	<b>Actuator</b>		<b>Code</b>
Aluminum spring return pneumatic rack and pinion					1	Electric		E
Aluminum double acting pneumatic rack and pinion					2	Oversized (1-UP) Electric		F
Stainless steel spring return pneumatic rack and pinion					3	Nema 7 Electric		G
Stainless steel double acting pneumatic rack and pinion					4	Electric with Riser Kit		H
Deadman spring return handle					6	<b>Voltage</b>		<b>Code</b>
Technopolymer spring return pneumatic rack and pinion					7	115VAC		B
<b>Actuator Options</b>					<b>Code</b>	12VDC		C
None					XX	24VAC		D
Oversized (1-up)					AA	24VDC		E
Actuator mounted parallel to flow					AB	220VAC		F
High temperature FKM elastomers					AC	12VAC		G
Extended travel stops					AD	<b>Option 1</b>		<b>Code</b>
Riser kit					AE	None		1
<b>Feedback</b>					<b>Code</b>	Torque switches		2
None					00	4-20mA Input/Output Modulating Controller		3
Limit Switch Box, OPEN/CLOSE Beacon, (2) SPDT Mech. Switches					11	Current Position Transmitter		4
Limit Switch Box, OPEN/CLOSE Beacon, (2) Switches, Magnetic Reed SPDT, Hermetically Sealed, up to SIL3, Exia ready, cULusClass 1/2 Div1/2					12	Potentiometer		5
Limit Switch Box, OPEN/CLOSE Beacon, AS-I					13	Local Control Unit		6
Limit Switch Box, OPEN/CLOSE Beacon, (2) Proximity SPDT Switches, Aluminum Exd IIB certified enclosure					14	Two Extra Travel Cams and Switches		7
Limit Switch Box, OPEN/CLOSE Beacon, (2) DPDT Mechanical Switches					15	Three Position Cam Set		8
Limit Switch Box, OPEN/CLOSE Beacon, (2) Switches, Electro mechanical SPDT, silver contacts, up to SIL3, cULus Class 1/2 Div 1					16	Local Control Unit with Lock		9
Limit Switch Box, OPEN/CLOSE Beacon, Inductive proximity P+F NBB2-V3-E2, 3 wire PNP NO					17	1-5V Input/2-10V Output Modulating Controller		A
Limit Switch Box, OPEN/CLOSE Beacon, 4-20ma Analog Position Transmitter					18	2-10V Input/Output Modulating Controller		B
Limit Switch Box, OPEN/CLOSE Beacon, SPDT Proximity, 0.25A@120VAC, 0.416A@48VDC, Resistive					19	75% Duty Cycle		C
Limit Switch Box, OPEN/CLOSE Beacon, 4-20ma Analog Position Transmitter + 2 SPDT Mechanical Switches					20	Relay		D
Stainless Steel Limit Switch Box, OPEN/CLOSE Beacon, (2) Proximity SPDT Switches					21	Four Position Cam Set		E

### B51-Series Industrial Butterfly Valve - Actuated Part Number Key

1. Pneumatic Actuator or Spring Return Manual Handle					2. Electric Actuator			
Actuator	Actuator Options	Feedback	Control	Valve Operation	Actuator	Voltage	Option 1	Option 2
1	XX	00	XX	1	E	B	1	1
<b>Control</b>				<b>Code</b>	25% Duty Cycle (Actuator Code G Only)			F
None				XX	75% Duty Cycle (Actuator Code G Only)			G
Single Coil Solenoid, 120VAC				AA	<b>Option 2</b>			<b>Code</b>
Single Coil Solenoid, 24VDC				AB	None			1
Single Coil Solenoid, 12VDC				AC	Torque Switches			2
Single Coil Solenoid, 220VAC				AD	4-20mA Input/Output Modulating Controller			3
Dual Coil Solenoid, 120VAC				AE	Current Position Transmitter			4
Dual Coil Solenoid, 24VDC				AF	Potentiometer			5
Dual Coil Solenoid, 220VAC				AG	Local Control Unit			6
Pneumatic Positioner 3-15 PSI input, no feedback				AH	Two Extra Travel Cams and Switches			7
Pneumatic Positioner 3-15 PSI input, (2) SPDT Mech. Switches for Feedback				AI	Three Position Cam Set			8
Pneumatic Positioner 3-15 PSI input, 4-20mA for Feedback				AJ	Local Control Unit with Lock			9
Electropneumatic Positioner 4-20mA input, no Feedback				AK	1-5V Input/2-10V Output Modulating Controller			A
Electropneumatic Positioner 4-20mA input, (2) SPDT Mech. Switches for Feedback				AL	2-10V Input/Output Modulating Controller			B
Electropneumatic Positioner 4-20mA input, 4-20mA for Feedback				AM	75% Duty Cycle			C
Electropneumatic Positioner 0-10v input, no Feedback				AN	Relay			D
Electropneumatic Positioner 0-10v input, (2) SPDT Mech. Switches for Feedback				AO	Four Position Cam Set			E
Electropneumatic Positioner 0-10v input, 4-20mA for Feedback				AP	25% Duty Cycle (Actuator Code G Only)			F
V200 Rotary Electropneumatic Positioner 4-20mA input, 4-20mA Feedback				AQ	75% Duty Cycle (Actuator Code G Only)			G
Electropneumatic Positioner 4-20mA input, no Feedback, Class 1, Div II Explosion Proof				AR				
Single Coil Solenoid, 24VDC and 24V Banjo Solenoid Valve with Form B Plug				AS				
Single Coil Solenoid, 24VDC, AS-I, 2.5W Low Power				AT				
Single Coil Solenoid, 24VDC, Intrinsically Safe				AU				
Single Coil Solenoid, 120VAC, Exp. Proof, Class H Coil				AV				
Single Coil Solenoid, 24VDC, Exp. Proof, Class H Coil				AW				
Single Coil Solenoid, 24VAC				AX				
V200 Rotary Electropneumatic Positioner 4-20mA input, 4-20mA Feedback, Class 1, Div II Explosion Proof				AY				
Single Coil Solenoid, 24VDC, Molded LED, Ind. Form, 2M Leads				AZ				
TUFRAM coated Electropneumatic Positioner 4-20mA input, no Feedback				BA				

## B51-Series Industrial Butterfly Valve - Actuated Part Number Key

1. Pneumatic Actuator or Spring Return Manual Handle				
Actuator	Actuator Options	Feedback	Control	Valve Operation
1	XX	00	XX	1
V200 Rotary Pneumatic Positioner, (2) REED SWITCH Feedback				BB
Single Coil Solenoid, 24VDC, Pre-Wired to Limit Switch WITH CORDSET (Dual Keyway, 1/2"-20 UNF Mating Thread, Single Ended, Straight Female Connector, 22 AWG PVC, Auto Color Code 2P to 6P Cable, 12' Length)				BC
Single Coil Solenoid, 24VDC, Pre-Wired to Limit Switch, 6P MALE CONNECTOR				BD
<b>Valve Operation</b>				<b>Code</b>
Normally Closed (Spring Return)				1
Normally Open (Spring Return)				2
Fail in Place (Double Acting)				3

**Pressure Drop Chart - Flow Coefficients (Cv)**

Size ANSI	Opening Angle								
	10°	20°	30°	40°	50°	60°	70°	80°	90°
1-1/2"	0.1	1.8	7	16	32	41	59	76	99
2"	0.1	2	11	22	42	58	86	120	132
2-1/2"	0.2	4	20	37	65	98	142	202	256
3"	0.3	8	21	38	86	125	198	392	505
4"	0.4	14	35	77	140	232	401	702	936
5"	0.9	29	62	132	232	392	625	922	1109
6"	2.1	42	96	203	372	611	1105	2009	2531
8"	3.2	65	191	401	726	121	1901	3555	4812
10"	3.9	151	321	695	1232	2065	3740	6183	7498
12"	5	234	495	1065	1909	2178	5905	8805	9928

**Holding Pressure Chart**

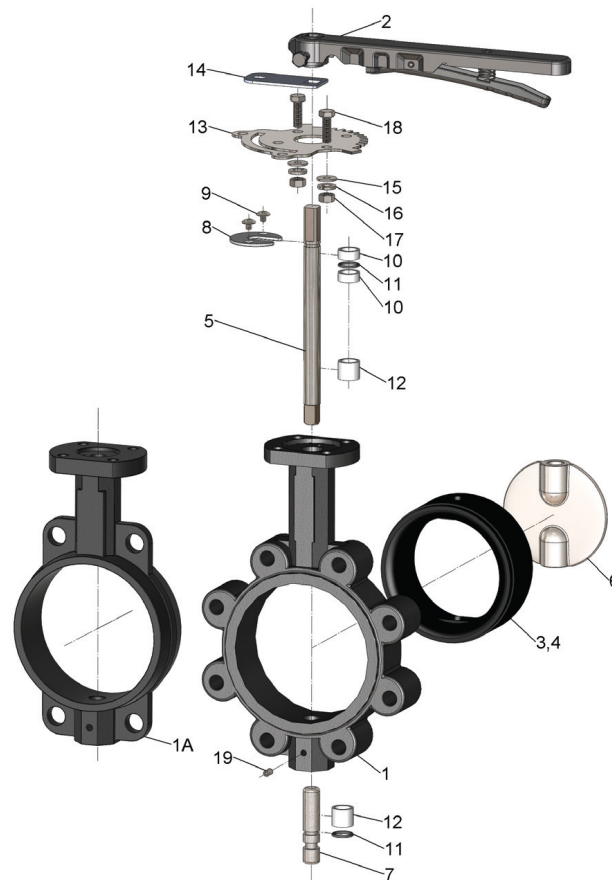
Size Range	1-1/2" to 12"					
Disc	Full Cut				Undercut	
Seat	EPDM, Nitrile Rubber, FKM		PTFE/E		EPDM, Nitrile Rubber, FKM	PTFE/E
Stem	416 SS	316SS	416 SS	316 SS	416SS, 316SS	416 SS, 316 SS
<b>Maximum Rated Body Pressure</b>	<b>200 PSI</b>	<b>200 PSI</b>	<b>150 PSI</b>	<b>150 PSI</b>	<b>200 PSI</b>	<b>150 PSI</b>
<b>Bidirectional Service</b>	<b>200 PSI</b>	<b>150 PSI</b>	<b>150 PSI</b>	<b>50 PSI</b>	<b>50 PSI</b>	<b>50 PSI</b>
<b>Unidirectional Dead-End Service</b>	<b>200 PSI</b>	<b>150 PSI</b>	<b>150 PSI</b>	<b>50 PSI</b>	<b>50 PSI</b>	<b>50 PSI</b>

**Torque Chart (in-lbs)**

Size	Standard Seat				Undercut	PTFE Seat		
	50ΔP	100ΔP	150ΔP	200ΔP	50ΔP	50ΔP	100ΔP	150ΔP
1-1/2"	89	97	106	115	-	133	133	136
2"	105	111	117	124	-	144	148	150
2-1/2"	133	143	159	184	-	161	165	168
3"	191	203	218	247	-	299	304	310
4"	283	316	343	373	200	392	409	425
5"	428	479	540	631	330	771	793	814
6"	636	720	799	909	440	1074	1113	1151
8"	1239	1273	1411	1506	820	2106	2177	2257
10"	2568	2710	2832	3106	1151	3152	3301	3453
12"	3154	3308	3671	4306	2400	4186	4444	4692



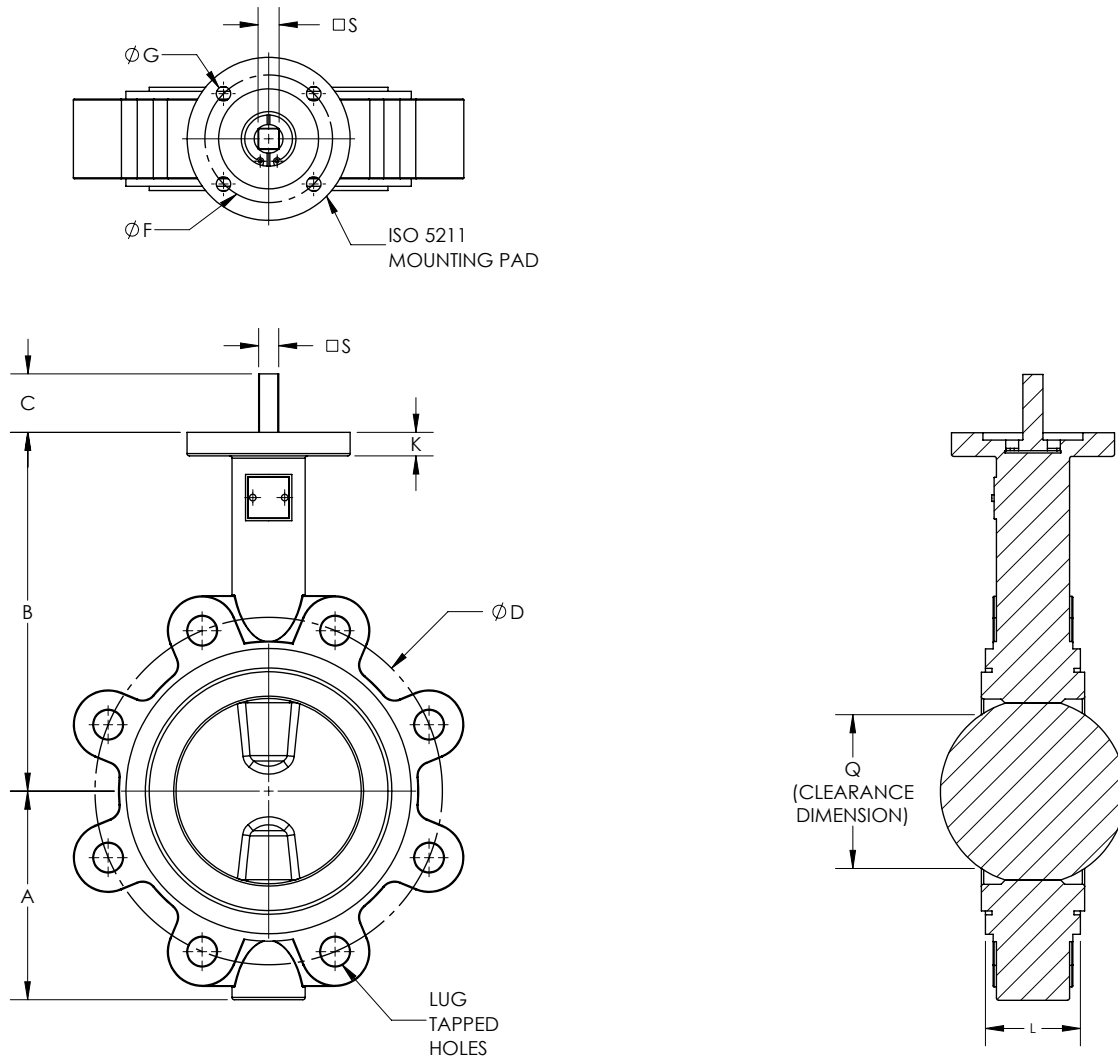
## B51-Series Industrial Butterfly Valve - Bill of Materials



Item #	Description	Materials	Qty
1	lug body	cast iron, CF8M, ductile iron	1
1A	wafer body	cast iron, CF8M, ductile iron	1
2	operator (bare stem, handle, or gear)	cast iron, 304 stainless steel	1
3	seat	EPDM, nitrile rubber, FKM (others)	1
4	back ring	phenolic thermoset resin	1
5	stem, upper	416 or 316 stainless steel	1
6	disc	nickle plated ductile iron, CF8M, aluminum bronze, nylon coated ductile iron	1
7	stem lower	416 or 316 stainless steel	1
8	stem retainer plate	zinc dichromate plated carbon steel	1
9	retainer plate screws	zinc dichromate plated carbon steel	2
10	bushings, upper	PTFE with graphite	2
11	stem o-ring	EPDM, nitrile rubber, FKM (others)	1
12	bushings, lower	PTFE with graphite	2
13	throttle plate	zinc dichromate plated carbon steel	1
14	infinite lock plate	zinc dichromate plated carbon steel	1
15	washer	zinc dichromate plated carbon steel	2
16	lock washer	zinc dichromate plated carbon steel	2
17	nut	zinc dichromate plated carbon steel	2
18	bolt	zinc dichromate plated carbon steel	2
19	set screw	zinc dichromate plated carbon steel	1

## B51-Series Industrial Butterfly Valve - Dimensions

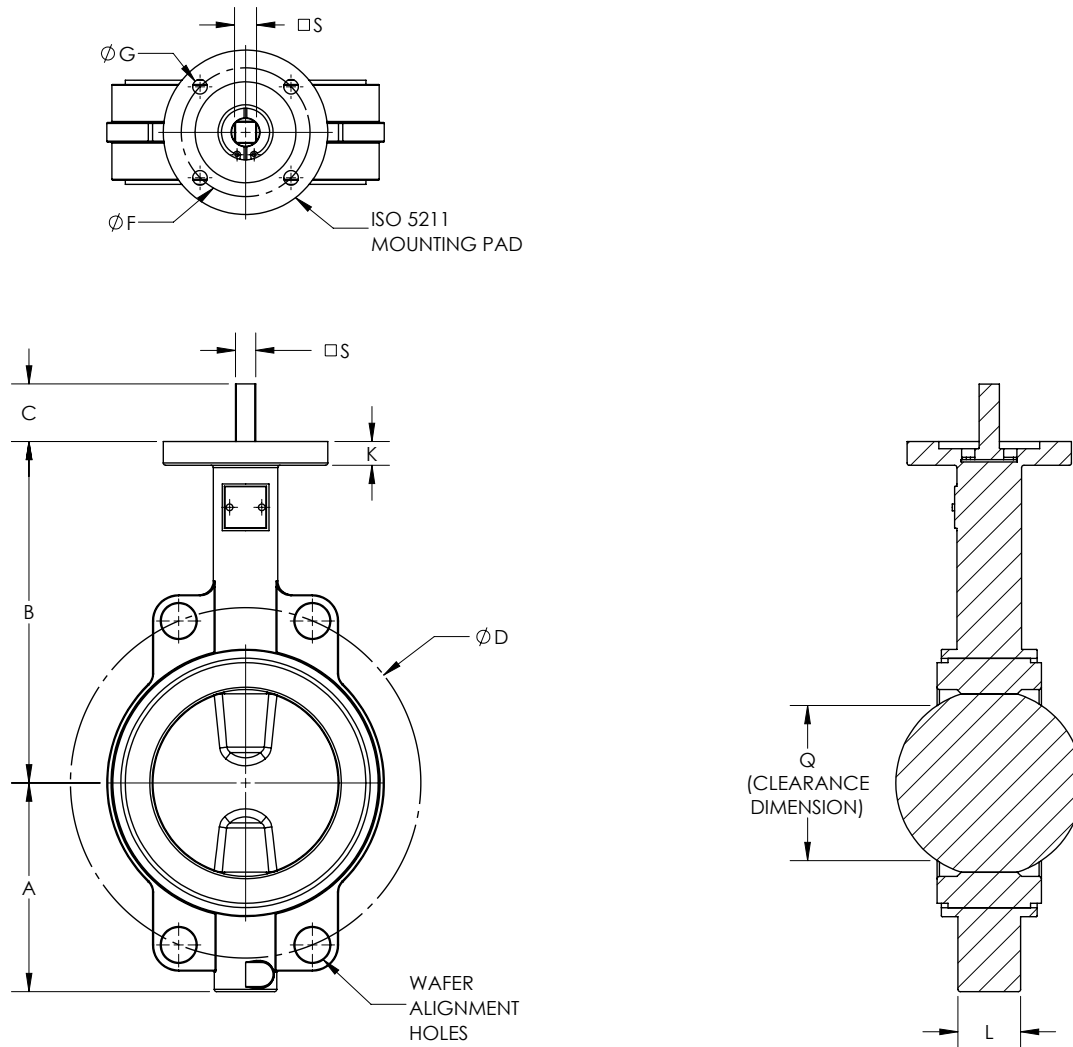
### Stainless Steel Lug Butterfly Valve



Size	L (in)	Q (in)	ØD (in)	Lug Taps SAE Thread	A (in)	B (in)	C (in)	□S (in)	ØF(in)	ISO	ØG (in)	K (in)
2"	1.69	1.14	4.74	4x 5/8"-11 UNC	2.60	5.12	1.18	0.354	1.969	F05	0.3	0.43
2-1/2"	1.81	1.77	5.50	4x 5/8"-11 UNC	3.23	5.55	1.18	0.354	1.969	F05	0.30	0.43
3"	1.81	2.44	6.00	4x 5/8"-11 UNC	3.54	5.83	1.18	0.354	1.969	F05	0.3	0.43
4"	2.05	3.50	7.50	8x 5/8"-11 UNC	4.25	6.69	1.18	0.433	2.756	F07	0.41	0.47
5"	2.20	4.57	8.50	8x 3/4"-10 UNC	4.84	7.36	1.18	0.551	2.756	F07	0.41	0.51
6"	2.20	5.71	9.51	8x 3/4"-10 UNC	5.43	7.95	1.18	0.551	4.016	F07	0.41	0.51
8"	2.36	7.76	11.75	8x 3/4"-10 UNC	6.69	9.37	1.57	0.669	4.016	F10	0.48	0.59
10"	2.68	9.76	14.25	12x 7/8"-9 UNC	7.87	10.71	1.57	0.866	4.016	F10	0.48	0.59
12"	3.07	11.73	17.01	12x 7/8"-9 UNC	9.29	12.01	1.57	0.866	4.016	F10	0.48	0.59

## B51-Series Industrial Butterfly Valve - Dimensions

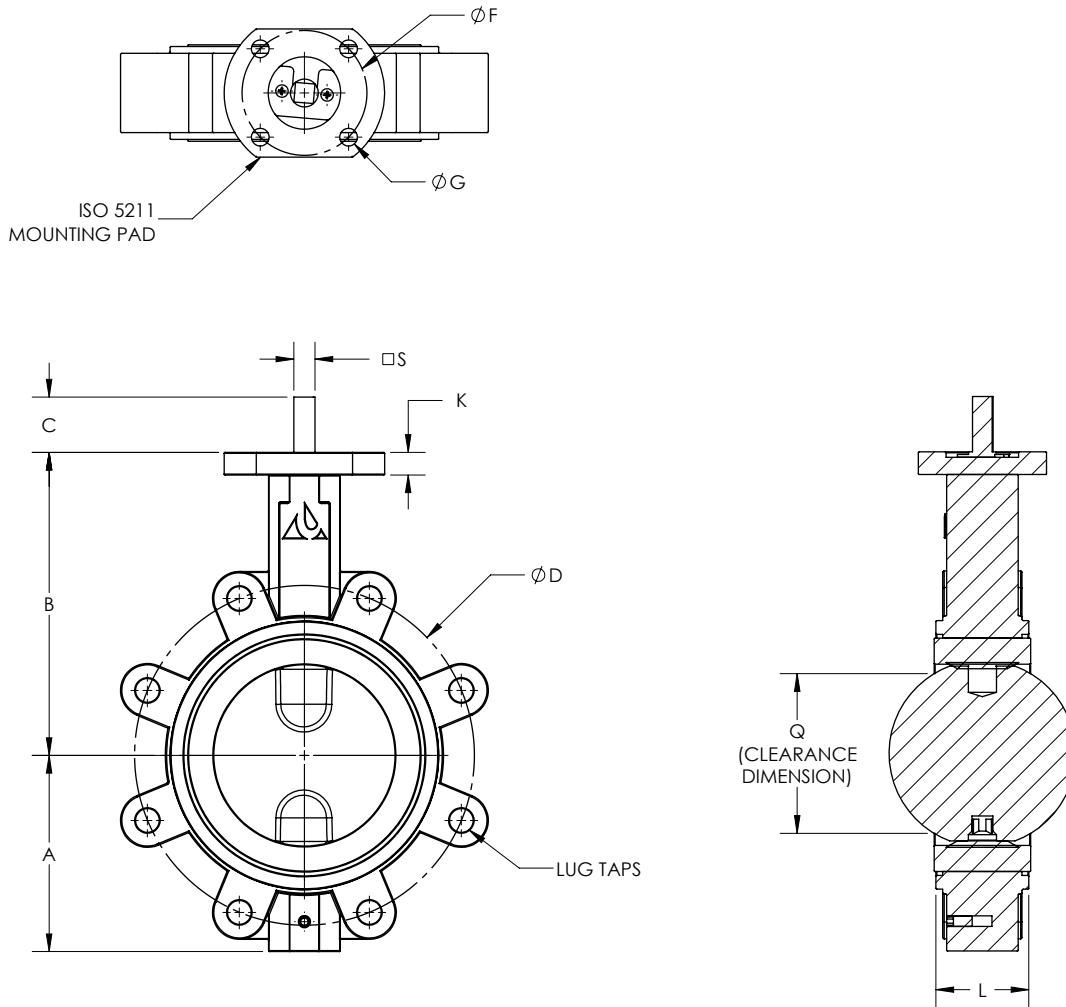
### Stainless Steel Wafer Butterfly Valve



Size	L (in)	Q (in)	ØD (in)	Wafer Holes (in)	A (in)	B (in)	C (in)	□S (in)	ØF(in)	ISO	ØG (in)	K (in)
2"	1.69	1.14	4.74	4 x 0.75	2.60	5.12	1.18	0.354	1.969	F05	0.3	0.43
2-1/2"	1.81	1.77	5.50	4 x 0.75	3.23	5.55	1.18	0.354	1.969	F05	0.30	0.43
3"	1.81	2.44	6.00	4 x 0.75	3.54	5.83	1.18	0.354	1.969	F05	0.3	0.43
4"	2.05	3.50	7.50	4 x 0.75	4.25	6.69	1.18	0.433	2.756	F07	0.41	0.47
5"	2.20	4.57	8.50	4 x 0.87	4.84	7.36	1.18	0.551	2.756	F07	0.41	0.51
6"	2.20	5.71	9.51	4 x 0.87	5.43	7.95	1.18	0.551	4.016	F07	0.41	0.51
8"	2.36	7.76	11.75	4 x 0.87	6.69	9.37	1.57	0.669	4.016	F10	0.48	0.59
10"	2.68	9.76	14.25	4 x 0.98	7.87	10.71	1.57	0.866	4.016	F10	0.48	0.59
12"	3.07	11.73	17.01	4 x 0.98	9.29	12.01	1.57	0.866	4.016	F10	0.48	0.59

## B51-Series Industrial Butterfly Valve - Dimensions

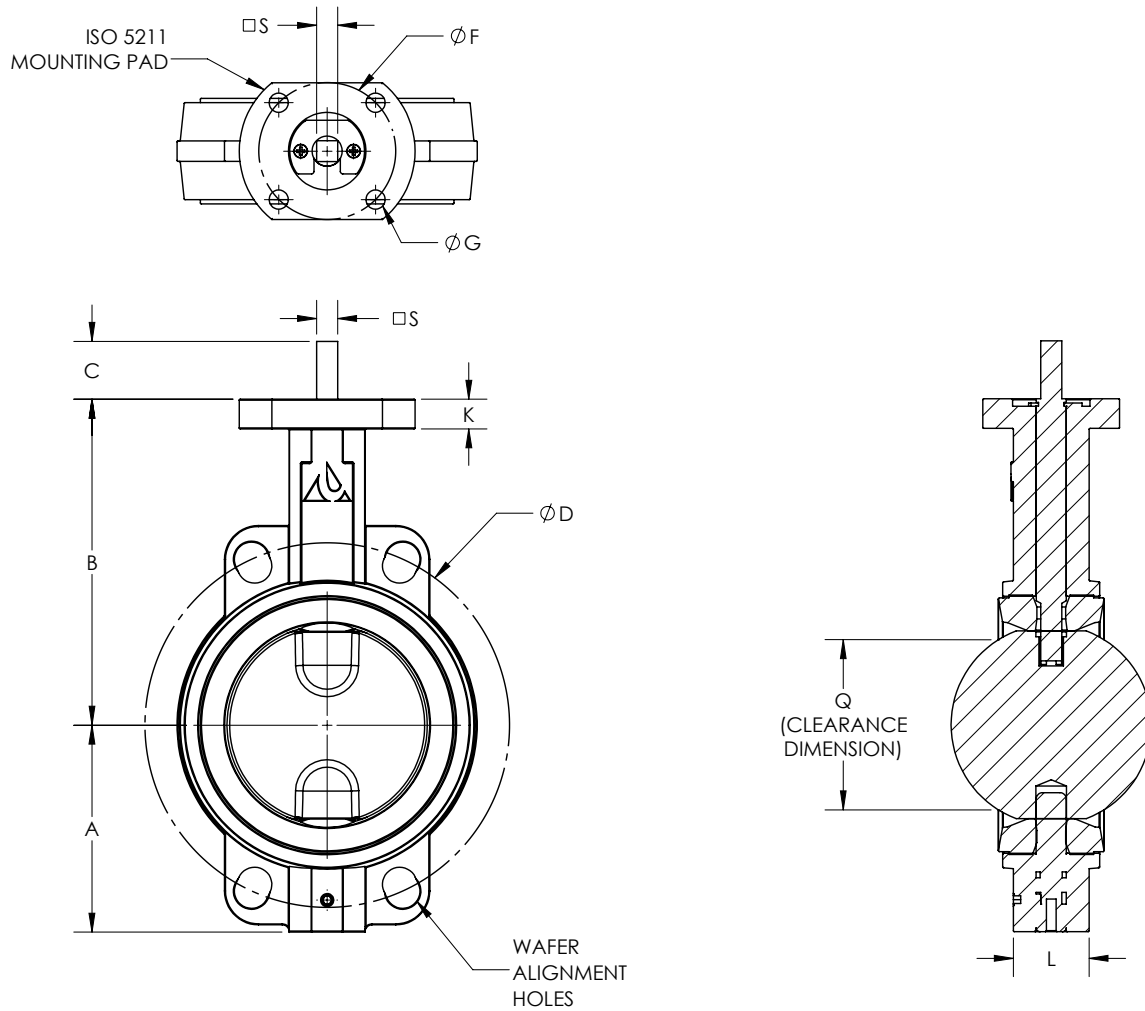
### Ductile Iron Lug Butterfly Valve



Size	L (in)	Q (in)	ØD (in)	Lug Taps SAE Thread	A (in)	B (in)	C (in)	□S (in)	ØF(in)	ISO	ØG (in)	K (in)
1-1/2"	1.30	0.83	3.88	-	2.32	4.92	1.18	0.354	1.969	F05	0.30	0.39
2"	1.69	1.14	4.74	4x 5/8"-11 UNC	2.60	5.12	1.18	0.354	1.969	F05	0.3	0.43
2-1/2"	1.81	1.77	5.50	4x 5/8"-11 UNC	3.23	5.55	1.18	0.354	1.969	F05	0.30	0.43
3"	1.81	2.44	6.00	4x 5/8"-11 UNC	3.54	5.83	1.18	0.354	1.969	F05	0.3	0.43
4"	2.05	3.50	7.50	8x 5/8"-11 UNC	4.25	6.69	1.18	0.433	2.756	F07	0.41	0.47
5"	2.20	4.57	8.50	8x 3/4"-10 UNC	4.84	7.36	1.18	0.551	2.756	F07	0.41	0.51
6"	2.20	5.71	9.51	8x 3/4"-10 UNC	5.43	7.95	1.18	0.551	4.016	F07	0.41	0.51
8"	2.36	7.76	11.75	8x 3/4"-10 UNC	6.69	9.37	1.57	0.669	4.016	F10	0.48	0.59
10"	2.68	9.76	14.25	12x 7/8"-9 UNC	7.87	10.71	1.57	0.866	4.016	F10	0.48	0.59
12"	3.07	11.73	17.01	12x 7/8"-9 UNC	9.29	12.01	1.57	0.866	4.016	F10	0.48	0.59

## B51-Series Industrial Butterfly Valve - Dimensions

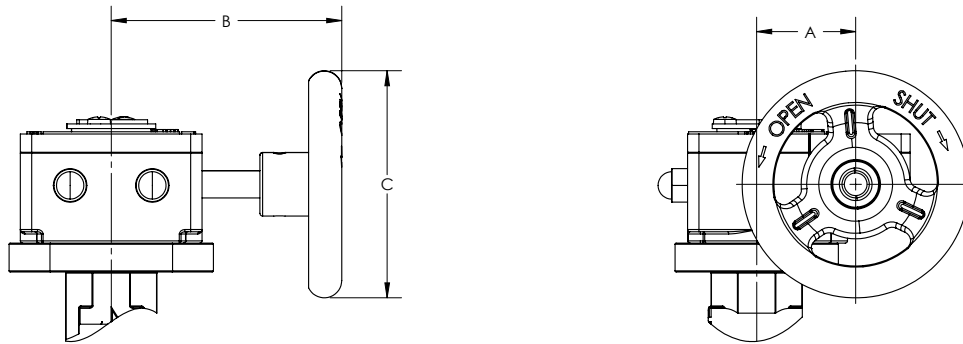
### Ductile Iron Wafer Butterfly Valve



Size	L (in)	Q (in)	ØD (in)	Wafer Holes (in)	A (in)	B (in)	C (in)	□S (in)	ØF(in)	ISO	ØG (in)	K (in)
1-1/2"	1.30	0.83	3.88	4 X 0.63	2.32	4.92	1.18	0.354	1.969	F05	0.30	0.39
2"	1.69	1.14	4.74	4 X 0.75	2.60	5.12	1.18	0.354	1.969	F05	0.3	0.43
2-1/2"	1.81	1.77	5.50	4 X 0.75	3.23	5.55	1.18	0.354	1.969	F05	0.30	0.43
3"	1.81	2.44	6.00	4 X 0.75	3.54	5.83	1.18	0.354	1.969	F05	0.3	0.43
4"	2.05	3.50	7.50	4 X 0.75	4.25	6.69	1.18	0.433	2.756	F07	0.41	0.47
5"	2.20	4.57	8.50	4 X 0.87	4.84	7.36	1.18	0.551	2.756	F07	0.41	0.51
6"	2.20	5.71	9.51	4 X 0.87	5.43	7.95	1.18	0.551	4.016	F07	0.41	0.51
8"	2.36	7.76	11.75	4 X 0.87	6.69	9.37	1.57	0.669	4.016	F10	0.48	0.59
10"	2.68	9.76	14.25	4 X 0.98	7.87	10.71	1.57	0.866	4.016	F10	0.48	0.59
12"	3.07	11.73	17.01	4 X 0.98	9.29	12.01	1.57	0.866	4.016	F10	0.48	0.59

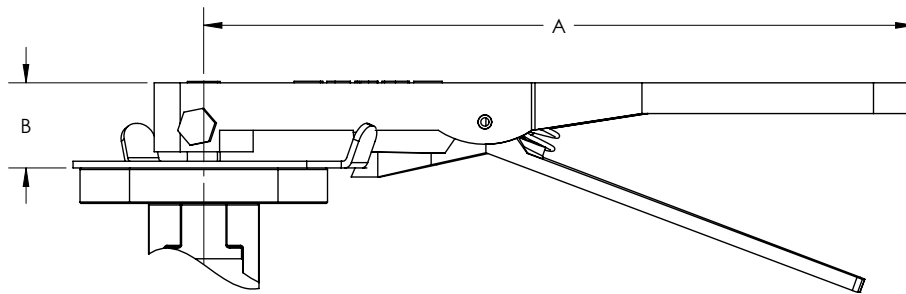
## B51-Series Industrial Butterfly Valve - Dimensions

### Gear Operator



Size	A (in)	B (in)	H (in)
1-1/2"	1.69	3.9	6
2"	1.69	3.9	6
2-1/2"	1.69	3.9	6
3"	1.69	3.9	6
4"	1.69	3.9	6
5"	2.49	5.8	6
6"	2.49	5.8	6
8"	2.38	8.4	10
10"	2.38	8.4	10
12"	2.63	8.3	12

### Handles



Size	A (in)	B (in)
1-1/2"	8.9	1.3
2"	8.9	1.3
2-1/2"	8.9	1.3
3"	10.2	1.42
4"	10.2	1.42
5"	10.2	1.42
6"	14.0	1.69
8"	14.0	1.69
10"	14.0	1.69
12"	14.0	1.69

### Ductile Iron Weight Chart

Size	Wafer		Lug	
	lbs	kg	lbs	kg
1-1/2"	3.5	1.6	4.0	1.8
2"	4.4	2.0	5.4	2.5
2-1/2"	5.1	2.3	6.6	3.0
3"	5.8	2.7	7.3	3.3
4"	9.4	4.3	13.2	6.0
5"	12.6	5.7	16.3	7.4
6"	15.6	7.1	20.5	9.3
8"	25.9	11.8	33.3	15.1
10"	40.8	18.5	57.8	26.2
12"	61.8	28.1	81.3	36.9

### Stainless Steel Weight Chart

Size	Wafer		Lug	
	lbs	kg	lbs	kg
1-1/2"	-	-	-	-
2"	4.0	1.8	5.3	2.4
2-1/2"	4.8	2.2	6.0	2.7
3"	5.6	2.6	6.5	3.0
4"	9.4	4.3	12.5	5.7
5"	12.5	5.7	14.7	6.7
6"	16.3	7.4	20.0	9.1
8"	26.6	12.1	31.7	14.4
10"	41.7	18.9	54.7	24.8
12"	66.6	30.2	75.6	34.3

### Ductile Iron with Handle Weight Chart

Size	Handle		Wafer with Handle		Lug with Handle	
	lbs	kg	lbs	kg	lbs	kg
1-1/2"	1.1	2.4	4.6	4.0	5.1	4.2
2"	1.1	2.4	5.5	4.4	6.5	4.9
2-1/2"	1.1	2.4	6.2	4.7	7.7	5.4
3"	1.1	2.4	6.9	5.1	8.4	5.7
4"	1.2	2.6	10.6	6.9	14.4	8.6
5"	1.3	2.9	13.9	8.6	17.6	10.3
6"	1.3	2.9	16.9	9.9	21.8	12.1
8"	2.6	5.7	28.5	17.5	35.9	20.8
10"	2.6	5.7	43.4	24.2	60.4	31.9
12"	2.6	5.7	64.4	33.8	83.9	42.6

NOTE: For 8" and larger it is recommended a gear operator be used for manual operation.

### Stainless Steel with Handle Weight Chart

Size	Handle		Wafer with Handle		Lug with Handle	
	lbs	kg	lbs	kg	lbs	kg
1-1/2"	-	-	-	-	-	-
2"	1.0	2.2	5.0	4.0	6.3	4.6
2-1/2"	1.0	2.2	5.8	4.4	7.0	4.9
3"	1.0	2.2	6.6	4.8	7.5	5.2
4"	1.0	2.2	10.4	6.5	13.5	7.9
5"	1.0	2.2	13.5	7.9	15.7	8.9
6"	1.0	2.2	17.3	9.6	21.0	11.3
8"	2.5	5.5	29.1	17.6	34.2	19.9
10"	2.5	5.5	44.2	24.4	57.2	30.3
12"	2.5	5.5	69.1	35.7	78.1	39.8

NOTE: For 8" and larger it is recommended a gear operator be used for manual operation.

### Ductile Iron with Gear Weight Chart

Size	Gear		Wafer with Gear		Lug with Gear	
	lbs	kg	lbs	kg	lbs	kg
1-1/2"	3.0	6.6	6.5	8.2	7.0	8.4
2"	3.0	6.6	7.4	8.6	8.4	9.1
2-1/2"	3.0	6.6	8.1	8.9	9.6	9.6
3"	3.0	6.6	8.8	9.3	10.3	9.9
4"	3.0	6.6	12.4	10.9	16.2	12.6
5"	6.0	13.2	18.6	18.9	22.3	20.6
6"	6.0	13.2	21.6	20.3	26.5	22.5
8"	12.0	26.5	37.9	38.2	45.3	41.6
10"	12.0	26.5	52.8	45.0	69.8	52.7
12"	12.0	48.5	83.8	76.6	103.3	85.4

### Stainless Steel with Gear Weight Chart

Size	Gear		Wafer with Gear		Lug with Gear	
	lbs	kg	lbs	kg	lbs	kg
1-1/2"	-	-	-	-	-	-
2"	3.0	6.6	7.0	8.4	8.3	9.0
2-1/2"	3.0	6.6	7.8	8.8	9.0	9.3
3"	3.0	6.6	8.6	9.2	9.5	9.6
4"	3.0	6.6	12.4	10.9	15.5	12.3
5"	6.0	13.2	18.5	18.9	20.7	19.9
6"	6.0	13.2	22.3	20.6	26.0	22.3
8"	12.0	26.5	38.6	38.5	43.7	40.9
10"	12.0	26.5	53.7	45.4	66.7	51.3
12"	22.0	48.5	88.6	78.7	97.6	82.8

### Repair Kits

- Repair kit includes items (3) seat, (4) back ring, (10) upper bushing, (11) stem O-ring, and (12) lower bushing in the bill of materials.



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