



Measures, Monitors and Controls
For The Process Industries

Butterfly Valves

Wafer Pattern

Lug Pattern

Double Flange

High Performance

Lever Operated

Gear Operated

Pneumatic Actuated

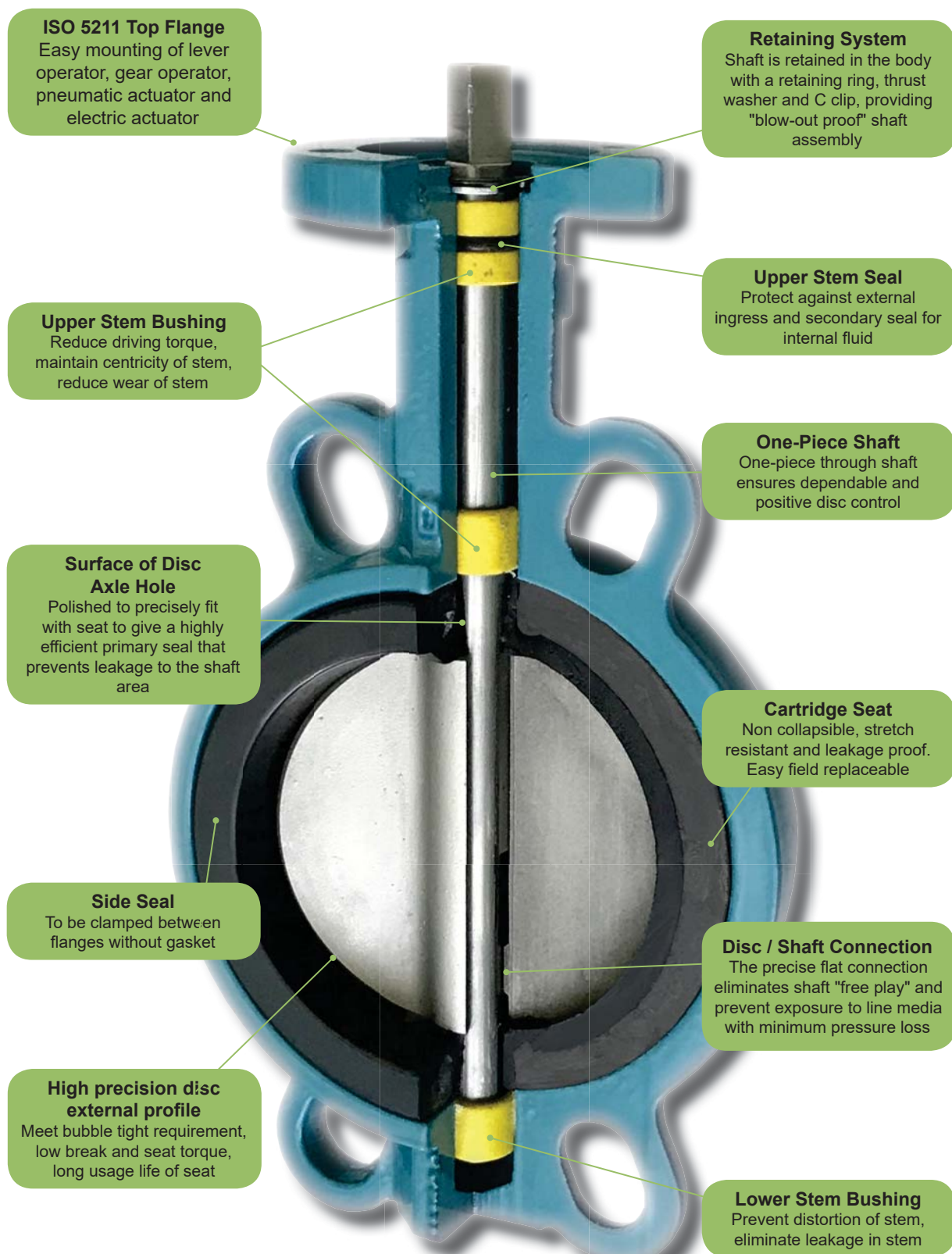
Electric Actuated

Accessories



AE BYV332 Butterfly Valve (Through Shaft withOUT Pin)

Design and Features



AE BYV332 Butterfly Valve (Through Shaft withOUT Pin)



Design

AE BYV332 Series butterfly valve has a through shaft without pin design meant for more demanding and higher frequency operation.

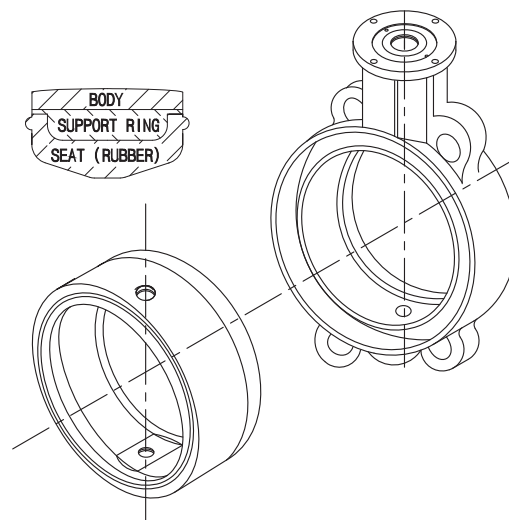
It has a wafer pattern body and can be used for shut off as well as throttling application. With its resilient cartridge type seat design, it is able to provide shut off pressure of up to 16 bar. The unique cartridge seat design also offers easy seat replacement on site without the need of any special tool. The valve can be easily installed between flanges with no gasket required. The valve can be manually operated by lever, gear or retrofitted to pneumatic and electric actuator for automatic process control with its top flange dimension in accordance to ISO5211.

Specifications

Size	DN40 to DN600 (bigger size on request)
Body Material	Cast Iron, Ductile Iron, WCB, CF8 (SS304), CF8M (SS316) (other material on request)
Disc Material	CF8, CF8M, Bronze (other material and ECTFE coated disc on request)
Stem Material	SS410 (other material on request)
Seat Material	EPDM, FKM, PTFE (other material on request)
Installation	Any direction, between ANSI150#, PN10, PN16, JIS5K and JIS10K flanges (for DN40 to DN350) To specify mounting flange standard at time of order for DN400 to DN600
Medium Pressure	Up to 16 bar (for DN40 to DN300) Up to 10 bar (for DN300 to DN600) (Subject to pressure limitation of mounting flanges used)
Medium Temperature	-20°C to +110°C (EPDM) -10°C to +160°C (FKM) -10°C to +130°C (PTFE)
Operator	Aluminium lever / Cast Iron Gear box

Cartridge Seat Design

Easy disassembly and assembly without damage to seat

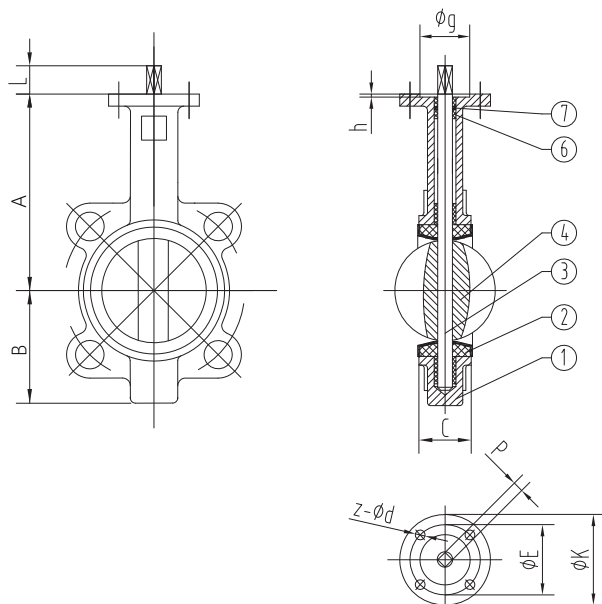


Kv Value

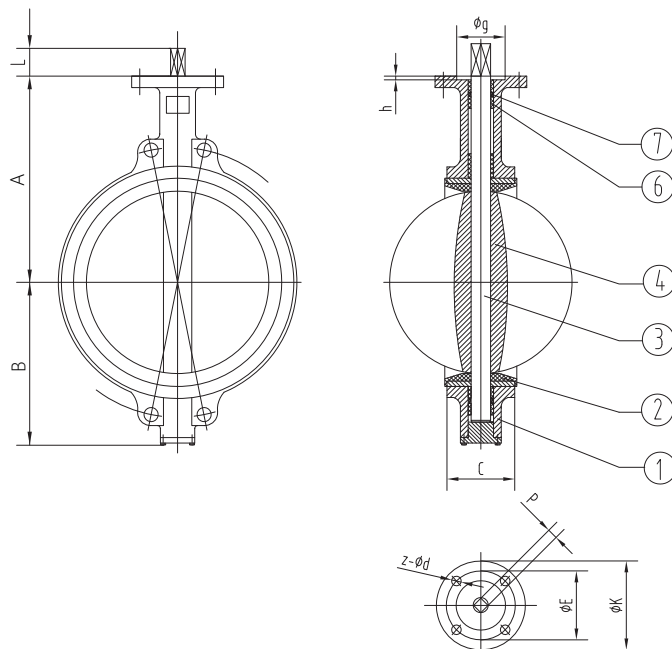
Size (mm)	Angle of Opening Kv Value (Water) (m³/h)							
	20°	30°	40°	50°	60°	70°	80°	90°
40	2.6	4.3	9.5	16	22	39	60	69
50	6.7	7.8	16	24	48	62	95	116
65	8.6	13	23	38	73	95	145	181
80	13	20	34	56	112	142	216	267
100	23	35	61	99	198	259	401	466
125	50	74	129	211	414	526	845	948
150	83	121	211	345	677	871	1392	1647
200	142	211	354	591	1099	1478	2302	2746
250	220	328	560	974	1810	2328	3664	4224
300	319	466	819	1353	2629	3405	5129	6336
350	388	647	1120	1905	3517	4836	6964	9665
400	552	776	1483	2405	4310	6336	9284	11121
450	630	1078	1978	3190	6078	7914	11983	15086
500	785	1375	2457	3991	7414	9914	15121	19310
600	1078	1974	3448	5250	10776	14224	20336	24397

AE BYV332 Butterfly Valve (Through Shaft withOUT Pin)

Bare Shaft DN40 to DN350



Bare Shaft DN400 to DN600



Standard Materials

No.	Part	Material
1	Body	Cl, DI, WCB, CF8, CF8M
2	Seat	EPDM, FKM, PTFE
3	Shaft	SS410
4	Disc	CF8, CF8M, Bronze
6	Bushing	Polymers
7	O Ring	NBR

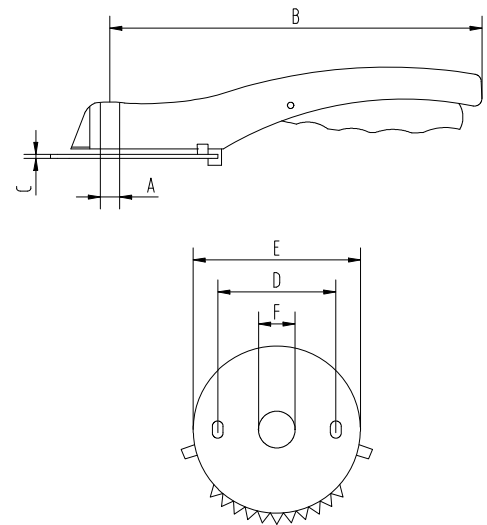
Dimensions (Bare Shaft)

Size (mm)	A	B	C	L	P	Upper flange					Weight (kg)
						K	E	z-d	g	h	
40	125	67	33	19	9	65	50	4-7	35	3	1.6
50	128	73	42	19	9	65	50	4-7	35	3	2
65	140	82	44.7	19	9	65	50	4-7	35	3	2.5
80	146	91	45.2	19	9	65	50	4-7	35	3	3
100	168	106	52.1	19	11	90	70	4-9	55	3	4
125	181	125	54.4	19	14	90	70	4-9	55	3	5.5
150	199	139	55.8	19	14	90	70	4-9	55	3	7
200	235	171	60.6	24	17	125	102	4-12	70	3	12
250	265	200	65.6	24	22	125	102	4-12	70	3	16.8
300	298	237	76.9	24	22	125	102	4-12	70	3	27
350	368	267	79.5	29	22	125	102	4-12	70	3	33.6
400	400	309	86.5	29	24	175	140	4-18	100	4	50
450	422	328	105.6	38	27	175	140	4-18	100	4	70
500	480	361	131.8	38	32	175	140	4-18	100	4	110
600	562	459	152	48	36	210	165	4-23	130	5	165

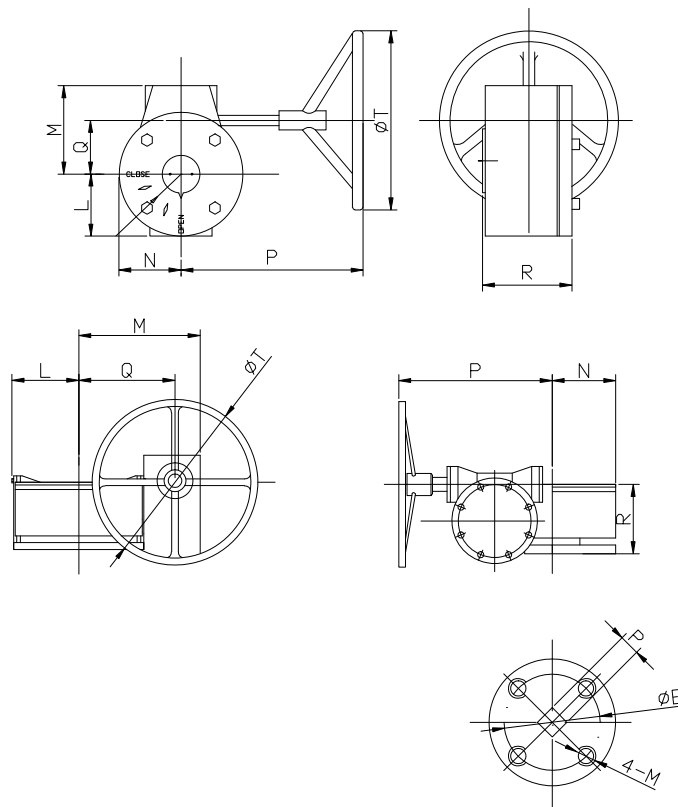
AE BYV332 Butterfly Valve (Through Shaft withOUT Pin)

Lever Operator

Valve Size	A	B	C	D	E	F	Weight (kg)
DN40 - 80	9 x 9	170	2.5	50	72	20	0.4
DN100	11 x 11	215	2.5	70	92	21	0.5
DN125 - 150	14 x 14	215	2.5	70	92	21	0.5
DN200	17 x 17	350	2.5	102	127	35	0.6
DN250 - 300	22 x 22	350	2.5	102	127	35	0.6



Gear Operator



Valve Size	L	Q	M	N	P	R	T	P	E	M	Weight (kg)
DN40 - 150	51	45	70	51	150	67	146	9 / 11 / 14	50 / 70	M6 / M8	4.0
DN200 - 250	72	66	98	66	207	84	285	17 / 22	102	M10	8.0
DN300 - 350	80	77	107	76	195	84	285	22	102	M10	10.3
DN400 - 500	111	174	217	96	243	164	290	24 / 27 / 32	140	M16	30.0
DN600	133	198	250	132	296	188	375	36	165	M20	50.0

AE BYV332 Butterfly Valve (Through Shaft withOUT Pin)

Pneumatic and Electric Actuated Version



Design

AE BYV332 Series butterfly valve when retrofitted with pneumatic or electric actuator make it suitable for automatic process control application.

Pneumatic actuator is available in double acting (DA) or spring return (SR) version. Wide range of accessories including E/P positioner, limit switch box for position feedback, declutchable manual override gearbox and pilot solenoid valves complete the range to meet various application requirements.

Electric actuator is available in on/off or modulating control version and comes standard with manual override built in.

The actuator is mounted onto the valve in normal open or normally closed position either directly or using customized mounting bracket. It is fully tested for alignment and proper functioning before delivery.

Specifications - Pneumatic Actuator

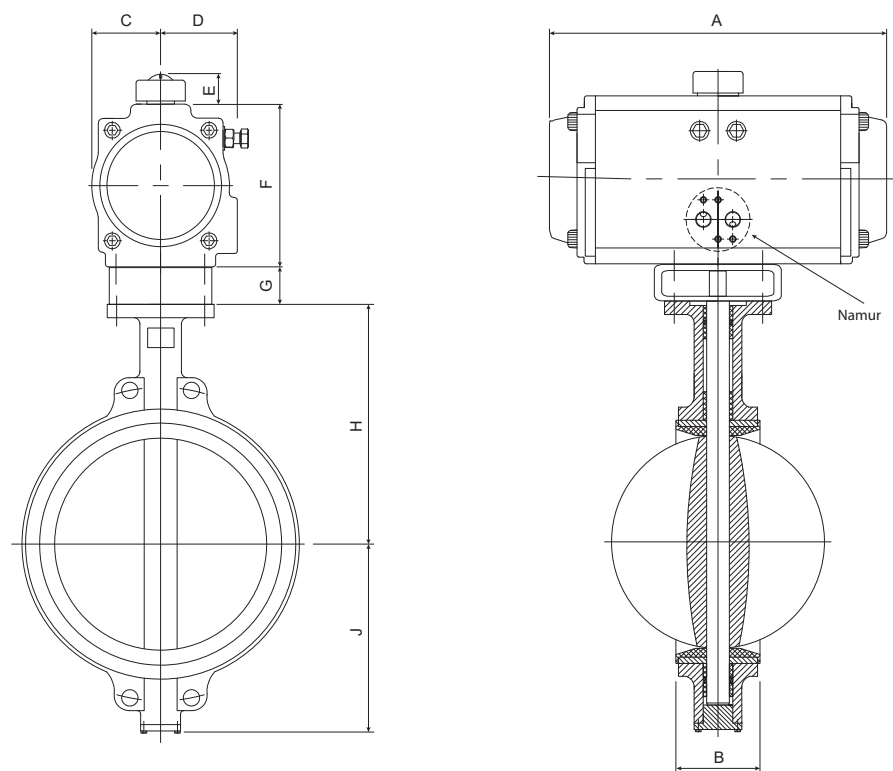
Function	Double Acting (DA) or Spring Return (SR)
Material	
Housing	Extruded aluminum alloy, hard anodized
End Cap	Pressure die cast aluminum alloy, epoxy coated
Pinion	Carbon steel, nickel plated
Piston	Cast aluminum / steel, hard anodized / Zinc galvanized
Cap Screw	Stainless steel
Spring	Spring steel, Dip Coated
Bearing and Guide	Engineering plastic
Travel Stop Cam	Alloy steel
Adjustment Screw	Stainless steel
Seal	NBR
Mounting Bracket	Aluminum, stainless steel, alloy steel
Operating Media	Dry or lubricated compressed air or non-corrosive gases
Supply Pressure	Min. 2 bar, Max. 8 bar
Operating Temperature	-20°C to +80°C (NBR) Lower or higher temperature version on request
Rotation	90°
Travel Adjustment	± 5°
Connection and Mounting	Namur, ISO5211 and DIN3337
Torque Output	3 Nm to 13024 Nm (DA) 4 Nm to 6584 Nm (SR)
Selection	Actuator is selected and matched in accordance to each process operating conditions and requirement to ensure proper functioning of the actuated valve

Specifications - Electric Actuator

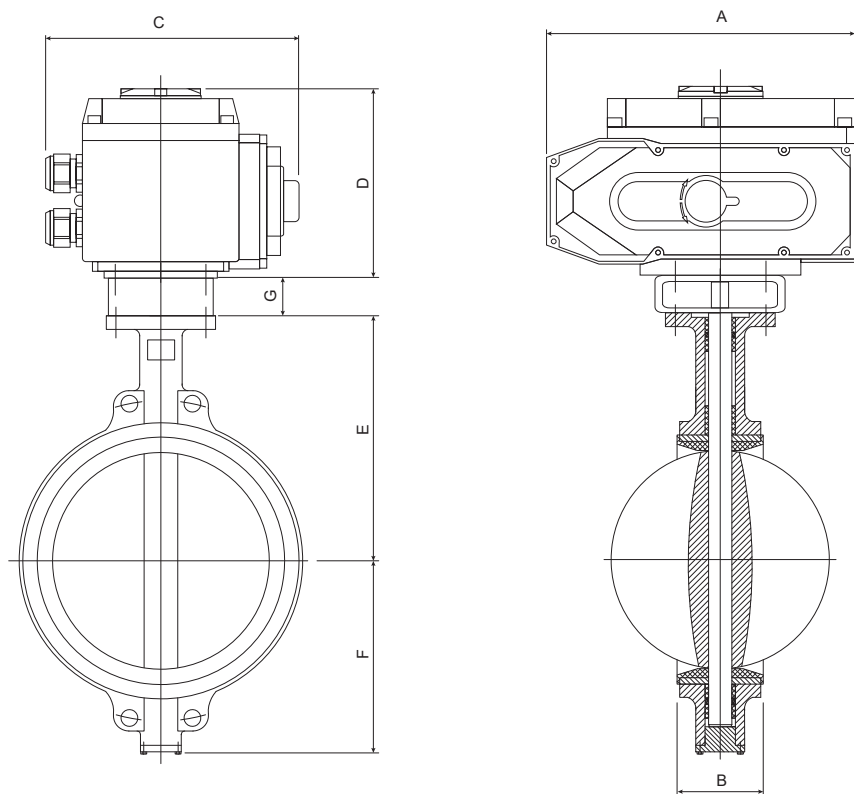
Function	On/Off or Modulating
Material	
Housing	Aluminum alloy, epoxy powder coated
Gear	Steel / aluminum bronze
Screws	Stainless steel
Indicator Cover	Polycarbonate
Shaft / Adaptor	Alloy steel
Seal	NBR
Power Supply	24VDC, 110VAC, 220VAC
Motor	Squirrel cage asynchronous motor
Limit Switch	SPST, 250VAC10A, each for Open and Close positions
Rotation	90° (± 10°) other rotation on request
Stall protection	Internal overheating thermal protection, open @ 120°C / close @ 97°C (± 5°C)
Manual Operation	Mechanical system by allen key
Conduit Entry	2 x M18
Operating Temperature	-20°C to +70°C
Ambient Humidity	Max. 90% RH
Mounting	ISO5211
Torque Output	30 Nm to 1000 Nm (2000 Nm on request)
Selection	Actuator is selected and matched in accordance to each process operating conditions and requirement to ensure proper functioning of the actuated valve
Options	
	Space Heater, 7 ... 10W (110/220VAC)
	Position Feedback Potentiometer (1K ... 10K)
	Position Feedback Sensor with Current output (4 ... 20mA)
	Proportional Control Unit for modulating control (input/output signal, 4 ... 20mA, 1 ... 5 VDC, 1 ... 10VDC)
	Power Failure Self Reset
	Quick Opening Version

AE BYV332 Butterfly Valve (Through Shaft withOUT Pin)

Pneumatic Actuated Version



Electric Actuated Version



AE BYV332 Butterfly Valve

(Through Shaft withOUT Pin)

Pneumatic Actuated Version Common Selection and Dimension (mm)

Function	Size (mm)	Pressure Range ¹⁾ (bar)	Actuator @ pilot air of:		Dimensions									Weight (kg)
			5 bar	6 bar	A	B	C	D	E	F	G ²⁾	H	J	
DA	40	0 to 10	AEJAT052DA		145	33	30	41	26	72	5	125	67	3.3
				AEJAT040DA	123		23.5	33	26	60	8			2.8
	50	0 to 10	AEJAT052DA		145	42	30	41	26	72	5	128	73	3.7
	65	0 to 10	AEJAT052DA		145	44.7	30	41	26	72	5	140	82	4.2
	80	0 to 10	AEJAT063DA		169	45.2	46	46	26	89	5	146	91	5.4
				AEJAT052DA	145		30	41	26	72	5			4.7
	100	0 to 10	AEJAT075DA		201	52.1	42	52	26	100	5	168	106	7.3
				AEJAT063DA	169		46	46	26	89	5			6.4
	125	0 to 10	AEJAT083DA		209	54.4	46	55	26	109	5	181	125	8.7
	150	0 to 10	AEJAT092DA		242	55.8	51	57.5	26	117	-	199	139	11.6
	200	0 to 10	AEJAT125DA		332	60.6	67.5	70	36	157	-	235	171	21.5
				AEJAT105DA	275		58	64	26	134	-			18.1
	250	0 to 10	AEJAT140DA		400	65.6	76	77	36	174	-	265	200	30.5
	300	0 to 10	AEJAT160DA		455	76.9	87.5	87.5	38	199	-	298	237	47.5
				AEJAT140DA	400		76	77	36	174	-			40.7
	350	0 to 10	AEJAT160DA		455	79.5	87.5	87.5	38	199	-	368	267	54.1
	400	0 to 10	AEJAT190DA		507	86.5	103	103	38	232	100	400	309	82.1
	450	0 to 10	AEJAT210DA		562	105.6	113	113	38	257	100	422	328	112.8
				AEJAT190DA	507		103	103	38	232	100			102.1
	500	0 to 10	AEJAT240DA		646	131.8	129	129	38	293	100	480	361	173.4
				AEJAT210DA	562		113	113	38	257	100			152.8
	600	0 to 10	AEJAT270DA		722	152	146	146	38	333	-	562	459	251.3
SR	40	0 to 10	AEJAT063SR		169	33	46	46	26	89	5	125	67	4.2
	50	0 to 10	AEJAT075SR		201	42	42	52	26	100	5	128	73	5.6
				AEJAT063SR	169		46	46	26	89	5			4.6
	65	0 to 10	AEJAT075SR		201	44.7	42	52	26	100	5	140	82	6.1
	80	0 to 10	AEJAT083SR		209	45.2	46	55	26	109	5	146	91	7.2
				AEJAT075SR	201		42	52	26	100	5			6.6
	100	0 to 10	AEJAT092SR		242	52.1	51	57.5	26	117	-	168	106	9.2
	125	0 to 10	AEJAT105SR		275	54.4	58	64	26	134	-	181	125	12.6
	150	0 to 10	AEJAT125SR		332	55.8	67.5	70	36	157	-	199	139	17.9
	200	0 to 10	AEJAT160SR		455	60.6	87.5	87.5	38	199	-	235	171	35.6
				AEJAT140SR	400		76	77	36	174	-			27.7
	250	0 to 10	AEJAT190SR		507	65.6	103	103	38	232	100	265	200	53.1
				AEJAT160SR	455		87.5	87.5	38	199	-			40.4
	300	0 to 10	AEJAT210SR		562	76.9	113	113	38	257	100	298	237	74.6
				AEJAT190SR	507		103	103	38	232	100			63.3
	350	0 to 10	AEJAT240SR		546	79.5	129	129	38	293	100	368	267	107.0
				AEJAT210SR	562		113	113	38	257	100			81.2
	400	0 to 10	AEJAT240SR		646	86.5	129	129	38	293	100	400	309	123.4
	450	0 to 10	AEJAT270SR		722	105.6	146	146	38	333	100	422	328	169.3
	500	0 to 10	AEJAT350SR		866	131.8	190	195	38	410	100	480	361	299.0
				AEJAT270SR	722		146	146	38	333	100			209.3
	600	0 to 10	AEJAT400SR		924	152	258	258	38	464	100	562	459	526.0
				AEJAT350SR	866		190	195	38	410	-			353.0

¹⁾ Actuator selection serve as a guide and is based on clean lubricating operating media at pressure up to 10 bar. For other operating conditions, please consult us.

²⁾ For version where mounting bracket is required

AE BYV332 Butterfly Valve (Through Shaft withOUT Pin)

Electric Actuated Version Common Selection and Dimension (mm)

Function	Size (mm)	Pressure Range ¹⁾ (bar)	Actuator	Dimensions							Weight (kg)
				A	B	C	D	E	F	G ²⁾	
Bi-Stable	40	0 to 10	AEJMO-005	161	33	121	125	125	67	5	5.6
	50	0 to 10	AEJMO-005	161	42	121	125	128	73	5	6.0
	65	0 to 10	AEJMO-005	161	44.7	121	125	140	82	5	6.5
	80	0 to 10	AEJMO-005	161	45.2	121	125	146	91	5	7.1
	100	0 to 10	AEJMO-005	161	52.1	121	125	168	106	5	8
	125	0 to 10	AEJMO-008	188	54.4	145	127	181	125	5	9.5
	150	0 to 10	AEJMO-015	188	55.8	145	127	199	139	-	12
	200	0 to 10	AEJMO-020	268	60.6	255	164	235	171	-	24
	250	0 to 10	AEJMO-040	268	65.6	255	164	265	200	-	29
	300	0 to 10	AEJMO-060	268	76.9	255	164	298	237	-	41
	350	0 to 10	AEJMO-080	268	79.5	255	164	368	267	-	48
	400	0 to 10	AEJMO-100	268	86.5	255	164	400	309	100	66
	450	0 to 10	AEJMO-200	280	105.6	172	160	422	328	100	84
	500	0 to 10	AEJMO-200	280	131.8	172	160	480	361	100	124
	600	0 to 10	On request		152			562	459	-	

¹⁾ Actuator selection serve as a guide and is based on clean lubricating operating media at pressure up to 10 bar. For other operating conditions, please consult us.

²⁾ For version where mounting bracket or spacer is required

Other AE BYV33x Series Butterfly Valve



AE BYV331 - Wafer Pattern Through Shaft with Pin Type Butterfly Valve

AE BYV333 - Wafer Pattern Through Shaft with Pin Lug Type Butterfly Valve

AE BYV334 - Wafer Pattern Through Shaft withOUT Pin Lug Type Butterfly Valve

AE BYV335 - Double Flange Pattern Through Shaft with or withOUT Pin Type Butterfly Valve

AE BYV336 - Wafer Pattern 2 pcs Shaft withOUT Pin Butterfly Valve

AE BYV337 - High Performance Eccentric Butterfly Valve



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