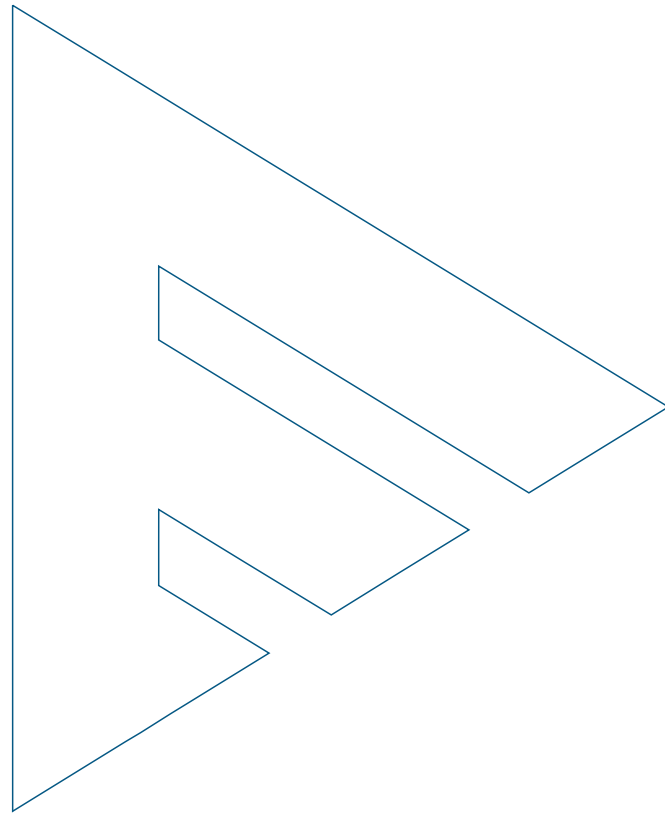


Intelligent Process Control



EBLF

POWDER BUTTERFLY VALVE



EMFLOW
EST. 2002

EM-FLOW ENVIRONMENTAL TECHNOLOGY CO., LTD.

29/F, No.68, Section 5, Zhongxiao East Road, Taipei City, Taiwan 11065
Tel: +886 961-612-974 E-mail: sales@emfow.tw Web: www.emflow.tw

User Benefits

- Few components
- Lightweight and easy to handle
- Interchangeable discs
- Highly abrasion-resistant
- Easy to fit
- Quick maintenance



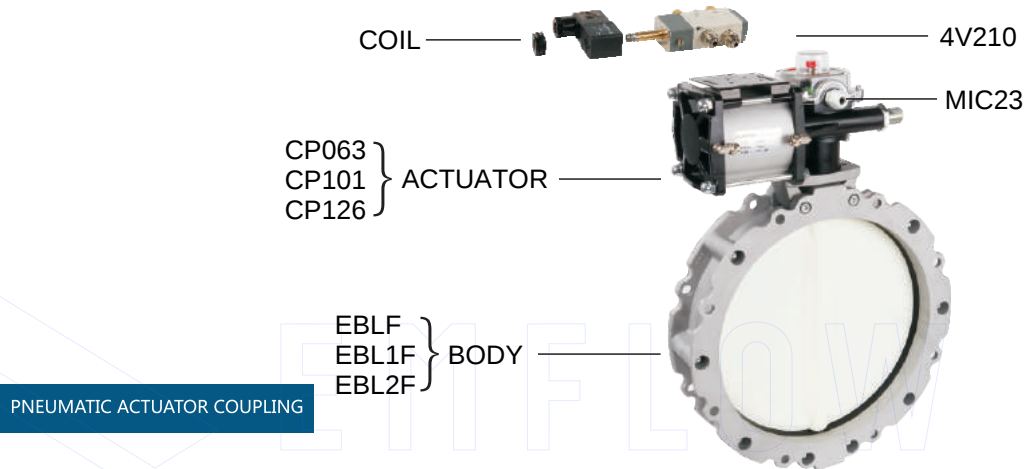
Pneumatic Powder Butterfly Valve

EBLF Butterfly Valves are mainly used silo switch bins, hoppers and equipped with powdered or granular materials. Can be applied to deal with all powdery and granular materials, the use of the material itself gravity valve closure and pneumatic conveying of dry materials.



EBL2F300SN-WF/24VDC

Is: Double flange connection butterfly valve, diameter 300mm, wear dust-proof valve plate, NBR seal, with solenoid valve coil voltage of 24 VDC, with MIC23 signal feedback.



Butterfly-valve size	EBL*F100	EBL*F150	EBL*F200	EBL*F250	EBL*F300	EBL*F350	EBL*F400
Under light load	CP 063	CP 063	CP 101	CP 101	CP 101	CP 126	CP 126
Under heavy load	CP 101	CP 101	CP 101	CP 126	CP 126	CP 126T	CP 126T

*Installation Method : 1 - Single flange butterfly valve for sleeve connection
2 - Double flange butterfly valve
NO - Detachable open type single flange (double flange with single flange)

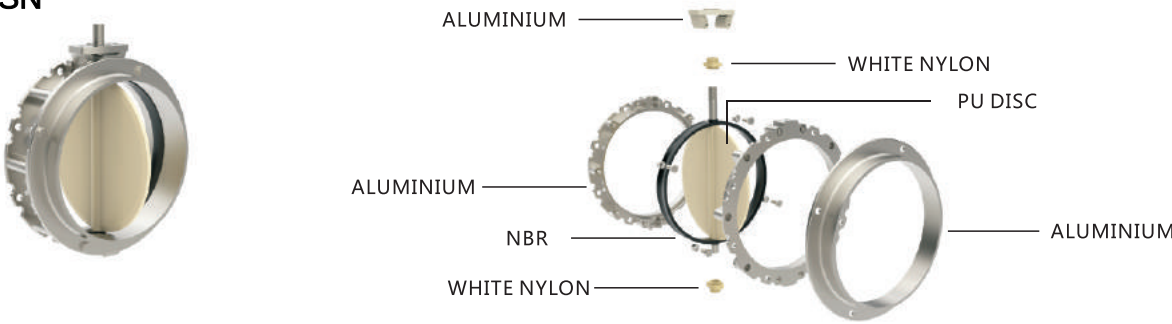
COUPLING OF MANUAL LEVER

Butterfly-valve size	EBL*F100	EBL*F150	EBL*F200	EBL*F250	EBL*F300	EBL*F350	EBL*F400
Manual Lever	CM4	CM4	CM4	CM4	CM4	CM3B	CM3B

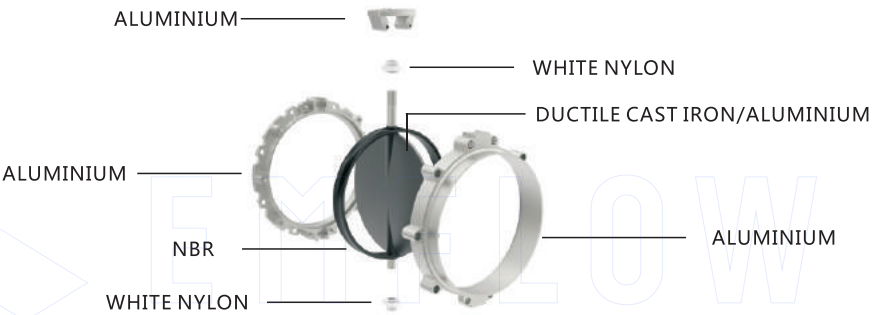
*Installation Method : 1 - Single flange butterfly valve for sleeve connection
2 - Double flange butterfly valve
NO - Detachable open type single flange (double flange with single flange)

NOTE: DISC CHOICE DEPENDS ON APPLICATION AND TYPE OF MATERIAL. WITH LUMPY, GRANULAR AND FIBROUS PRODUCTS, WE SUGGEST TO USE CAST IRON OR AISI 304 DISC.

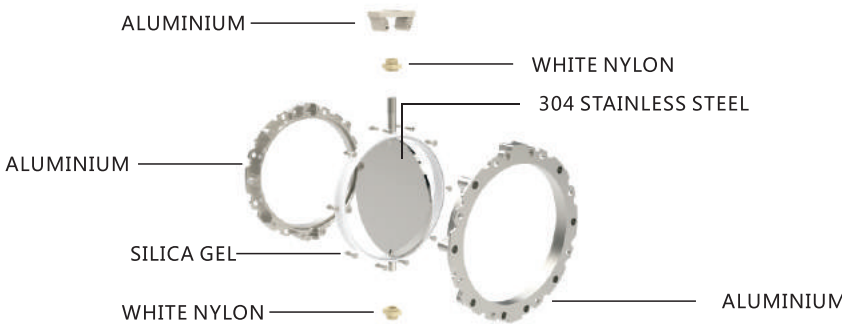
EBLF-SN



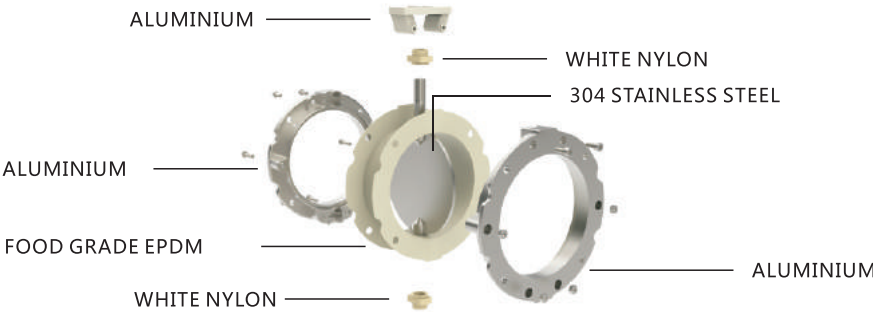
EBL1F-GBN/LN



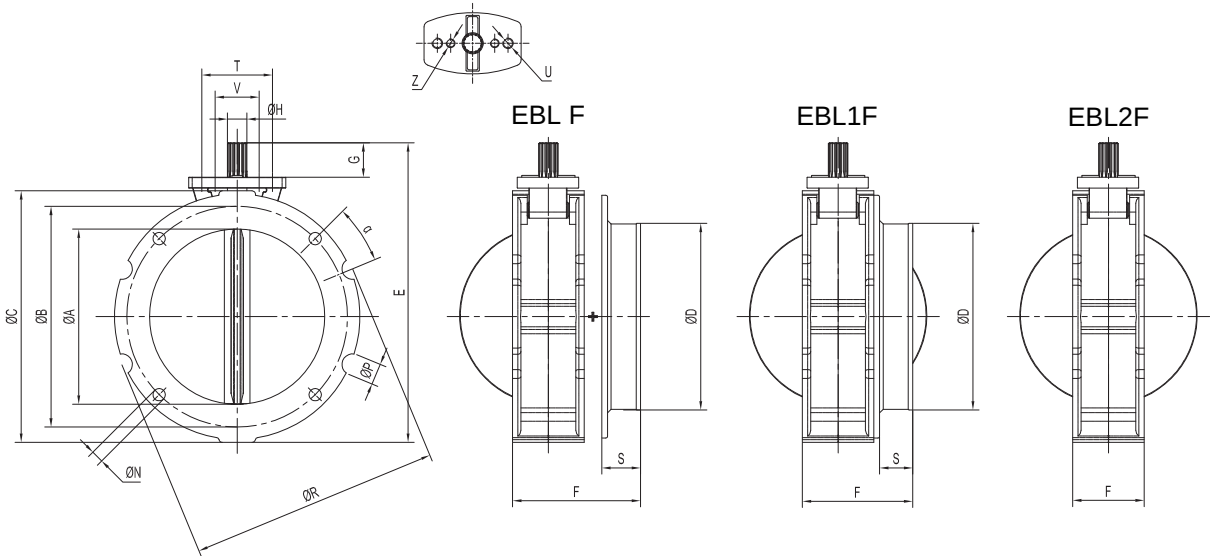
EBL2F-AS



EBL2F-AI



Technical Parameters



Detachable open type single flange (double flange with single flange)

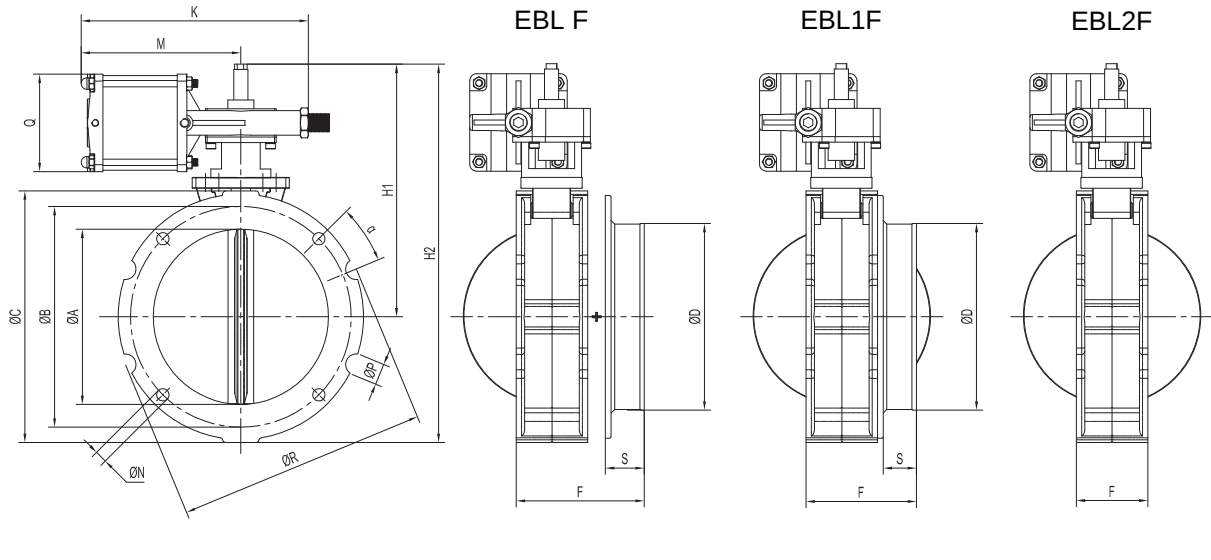
Model	ΦA	ΦB	ΦC	ΦD	E	F	G	ΦH	ΦN	ΦP	ΦR	α	S	T	U	V	Z	kg
EBLF100	95	180	220	105	250	115	35	22X19	4-φ14	4-φ20	220	22°30'	40	80	M12	50	M10	4.5
EBLF150	150	200	228	163	290	115	35	22X19	4-φ14	4-φ20	228	22°30'	40	80	M12	50	M10	4.8
EBLF200	200	250	278	213	340	115	35	22X19	4-φ14	4-φ20	278	22°30'	40	80	M12	50	M10	6.8
EBLF250	250	300	328	263	390	115	35	22X19	8-φ14	8-φ20	328	11°15'	40	80	M12	50	M10	8.5
EBLF300	300	350	378	313	440	115	35	22X19	8-φ14	16-φ20	378	5°41'	40	80	M12	50	M10	10.4
EBLF350	350	400	440	363	530	123	50	28X25	8-φ14	8-φ20	440	10°	40	80	M12	—	—	17.5
EBLF400	400	470	530	413	580	123	50	28X25	8-φ14	16-φ20	530	4°30'	40	80	M12	—	—	27

Single Flange Butterfly Valve For Sleeve Connection

Model	ΦA	ΦB	ΦC	ΦD	E	F	G	ΦH	ΦN	ΦP	ΦR	α	S	T	U	V	Z	kg
EBL1F100	95	180	220	105	250	115	35	22X19	4-φ14	4-φ20	220	22°30'	40	80	M12	50	M10	3.8
EBL1F150	150	200	228	163	290	115	35	22X19	4-φ14	4-φ20	228	22°30'	40	80	M12	50	M10	4.2
EBL1F200	200	250	278	213	340	115	35	22X19	4-φ14	4-φ20	278	22°30'	40	80	M12	50	M10	5.9
EBL1F250	250	300	328	263	390	115	35	22X19	8-φ14	8-φ20	328	11°15'	40	80	M12	50	M10	7.4
EBL1F300	300	350	378	313	440	115	35	22X19	8-φ14	16-φ20	378	5°41'	40	80	M12	50	M10	9.2
EBL1F350	350	400	440	363	530	123	50	28X25	8-φ14	8-φ20	440	10°	40	80	M12	—	—	16.3
EBL1F400	400	470	530	413	580	123	50	28X25	8-φ14	16-φ20	530	4°30'	40	80	M12	—	—	27

Double Flange Butterfly Valve

Model	ΦA	ΦB	ΦC	ΦD	E	F	G	ΦH	ΦN	ΦP	ΦR	α	S	T	U	V	Z	kg
EBL2F100	95	180	220	105	250	115	35	22X19	4-φ14	4-φ20	220	22°30'	40	80	M12	50	M10	3.8
EBL2F150	150	200	228	163	290	115	35	22X19	4-φ14	4-φ20	228	22°30'	40	80	M12	50	M10	4.2
EBL2F200	200	250	278	213	340	115	35	22X19	4-φ14	4-φ20	278	22°30'	40	80	M12	50	M10	5.9
EBL2F250	250	300	328	263	390	115	35	22X19	8-φ14	8-φ20	328	11°15'	40	80	M12	50	M10	7.4
EBL2F300	300	350	378	313	440	115	35	22X19	8-φ14	16-φ20	378	5°41'	40	80	M12	50	M10	9.2
EBL2F350	350	400	440	363	530	123	50	28X25	8-φ14	8-φ20	440	10°	40	80	M12	—	—	16.3
EBL3F400	400	470	530	413	580	123	50	28X25	8-φ14	16-φ20	530	4°30'	40	80	M12	—	—	27



Detachable open type single flange (double flange with single flange)

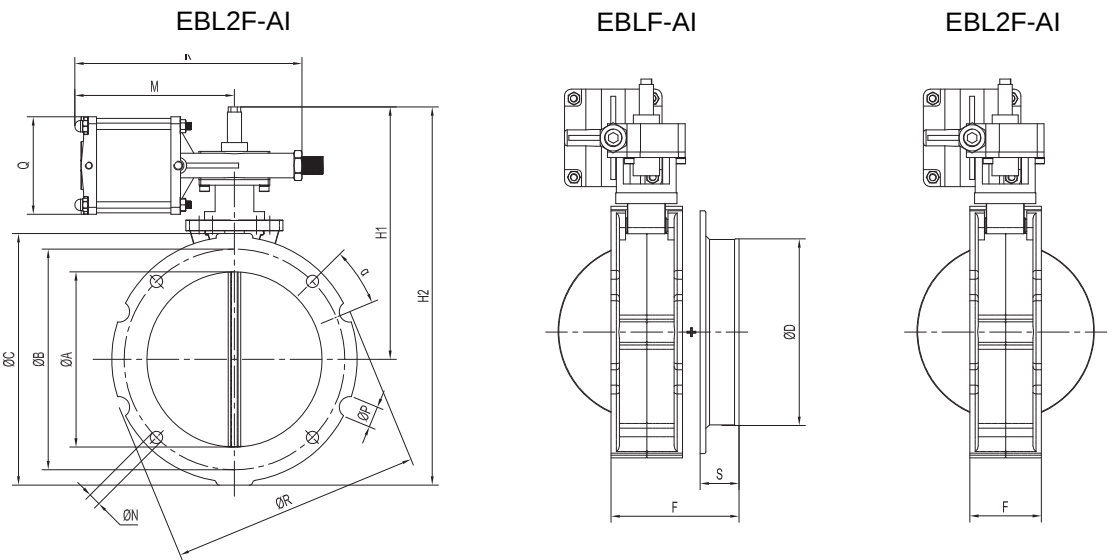
Model	ΦA	ΦB	ΦC	ΦD	F	H1	H2	K	M	ΦN	ΦP	ΦR	α	S	Q	kg
EBLF100-WF	95	180	220	105	115	250	360	258	181	4- φ 14	4- φ 20	220	22°30	40	110	7.7
EBLF150-WF	150	200	228	163	115	260	373	258	181	4- φ 14	4- φ 20	228	22°30	40	110	8
EBLF200-WF	200	250	278	213	115	285	430	258	181	4- φ 14	4- φ 20	278	22°30	40	110	10
EBLF250-WF	250	300	328	263	115	312	480	258	181	8- φ 14	8- φ 20	328	11°15	40	110	11.7
EBLF300-WF	300	350	378	313	115	338	532	258	181	8- φ 14	16- φ 20	378	5°41	40	110	13.6
EBLF350-WF	350	400	440	363	123	410	635	445	286	8- φ 14	8- φ 20	440	10°	40	138	26.5
EBLF400-WF	400	470	530	413	123	455	720	445	286	8- φ 14	16- φ 20	530	4°30	40	138	36

Single Flange Butterfly Valve For Sleeve Connection

Model	ΦA	ΦB	ΦC	ΦD	F	H1	H2	K	M	ΦN	ΦP	ΦR	α	S	Q	kg
EBL1F100-WF	95	180	220	105	115	250	360	258	181	4- φ 14	4- φ 20	220	22°30	40	110	7.7
EBL1F150-WF	150	200	228	163	115	260	373	258	181	4- φ 14	4- φ 20	228	22°30	40	110	8
EBL1F200-WF	200	250	278	213	115	285	430	258	181	4- φ 14	4- φ 20	278	22°30	40	110	10
EBL1F250-WF	250	300	328	263	115	312	480	258	181	8- φ 14	8- φ 20	328	11°15	40	110	11.7
EBL1F300-WF	300	350	378	313	115	338	532	258	181	8- φ 14	16- φ 20	378	5°41	40	110	13.6
EBL1F350-WF	350	400	440	363	123	410	635	445	286	8- φ 14	8- φ 20	440	10°	40	138	26.5
EBL1F400-WF	400	470	530	413	123	455	720	445	286	8- φ 14	16- φ 20	530	4°30	40	138	36

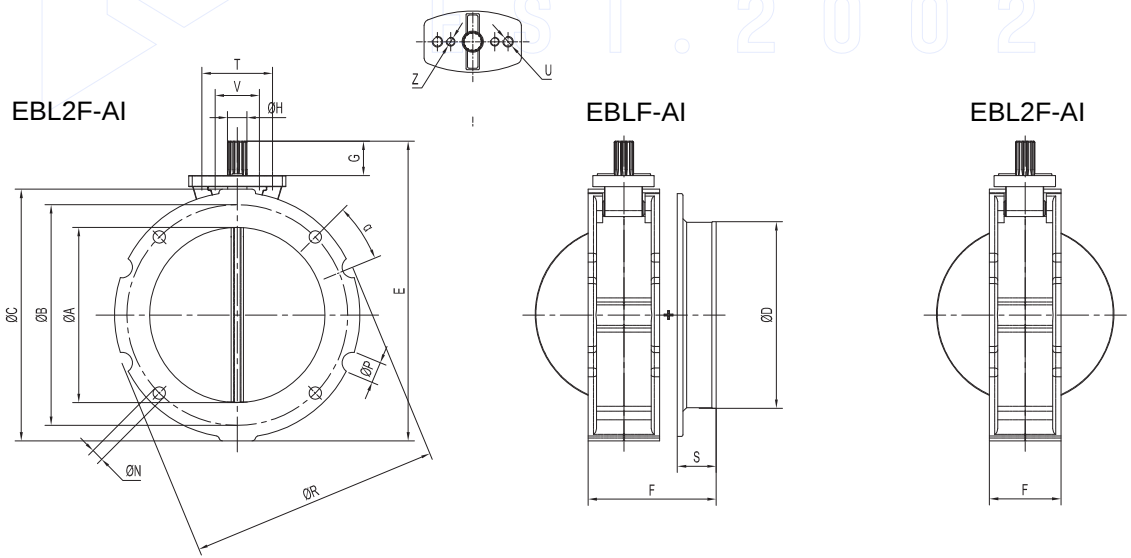
Double Flange Butterfly Valve

Model	ΦA	ΦB	ΦC	ΦD	F	H1	H2	K	M	ΦN	ΦP	ΦR	α	Q	kg
EBL2F100-WF	95	180	220	105	77	250	360	258	181	4- φ 14	4- φ 20	220	22°30	110	7
EBL2F150-WF	150	200	228	163	77	260	373	258	181	4- φ 14	4- φ 20	228	22°30	110	7.5
EBL2F200-WF	200	250	278	213	77	285	430	258	181	4- φ 14	4- φ 20	278	22°30	110	9.1
EBL2F250-WF	250	300	328	263	77	312	480	258	181	8- φ 14	8- φ 20	328	11°15	110	10.6
EBL2F300-WF	300	350	378	313	77	338	532	258	181	8- φ 14	16- φ 20	378	5°41	110	12.4
EBL2F350-WF	350	400	440	363	85	410	635	445	286	8- φ 14	8- φ 20	440	10°	138	25.2
EBL2F400-WF	400	470	530	413	85	455	720	445	286	8- φ 14	16- φ 20	530	4°30	138	36



Food-Grade Butterfly Valve

Model	ΦA	ΦB	ΦC	F	H1	H2	K	M	ΦN	ΦP	ΦR	α	Q	kg
EBLF100-AI	90	180	220	84	250	360	258	181	4- φ 14	4- φ 20	220	22°30	110	8
EBLF150-AI	145	200	228	84	260	373	258	181	4- φ 14	4- φ 20	228	22°30	110	9
EBLF200-AI	195	250	278	84	285	430	258	181	4- φ 14	4- φ 20	278	22°30	110	10
EBLF250-AI	245	300	328	84	312	480	258	181	8- φ 14	8- φ 20	328	11°15	110	12
EBLF300-AI	295	350	378	84	338	532	258	181	8- φ 14	16- φ 20	378	5°41	110	14



Food-Grade Butterfly Valve

Model	ΦA	ΦB	ΦC	E	F	G	ΦH	ΦN	ΦP	ΦR	α	T	U	Z	kg
EBLF100-AI	90	180	220	250	84	35	22x19	4- φ 14	4- φ 20	220	22°30	80	M12	M10	4
EBLF150-AI	145	200	228	290	84	35	22x19	4- φ 14	4- φ 20	228	22°30	80	M12	M10	5
EBLF200-AI	195	250	278	340	84	35	22x19	4- φ 14	4- φ 20	278	22°30	80	M12	M10	6.5
EBLF250-AI	245	300	328	390	84	35	22x19	8- φ 14	8- φ 20	328	11°15	80	M12	M10	8
EBLF300-AI	295	350	378	440	84	35	22x19	8- φ 14	16- φ 20	378	5°41	80	M12	M10	10

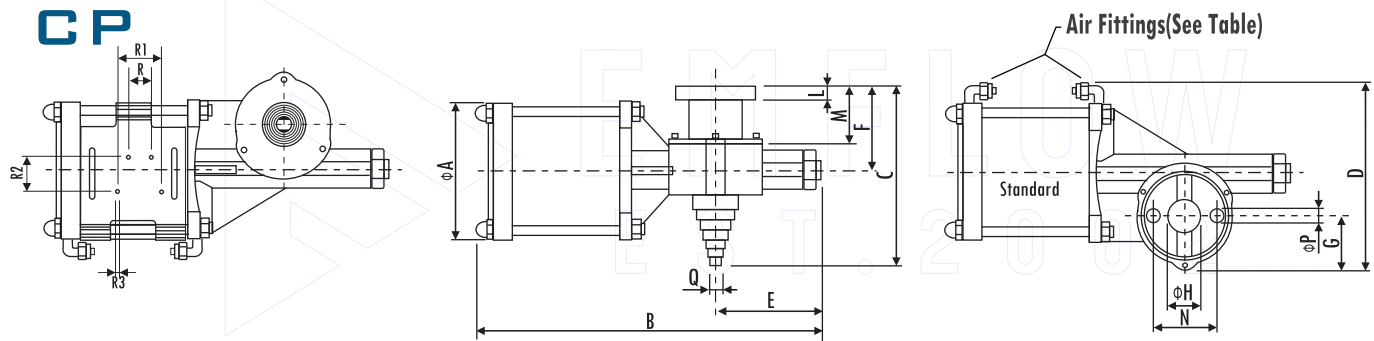
Electro pneumatic Actuator

Performance & Technical Features – Benefits

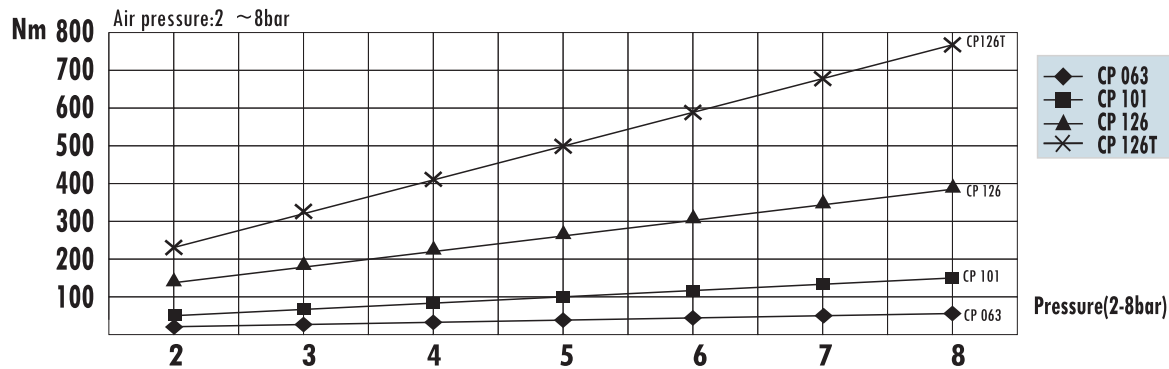
- pressure:2 ~ 8 bar(29 ~ 116 PSI)
- The spline shaft and bushing connections on the CP drive comply with DIN 5482
- Switch box:MIC 23
- Solenoid valve:4V210&4V310
- Solenoid Coils:24-48-110-220 V DC& 50 Hz AC

How To Order

CP	101	A	W	F	/24VDC
Type	Path	Connection Processes	Switch box	Solenoid valve	Voltage
CP : Actuator	063 101 126	A=Fig1 B=Fig2 (ISO5211) D=Opening angle adjustable T=Enhance TC=Three-position	W=MIC23	F=Solenoid valve	24VDC 24VAC 220VAC 110VAC



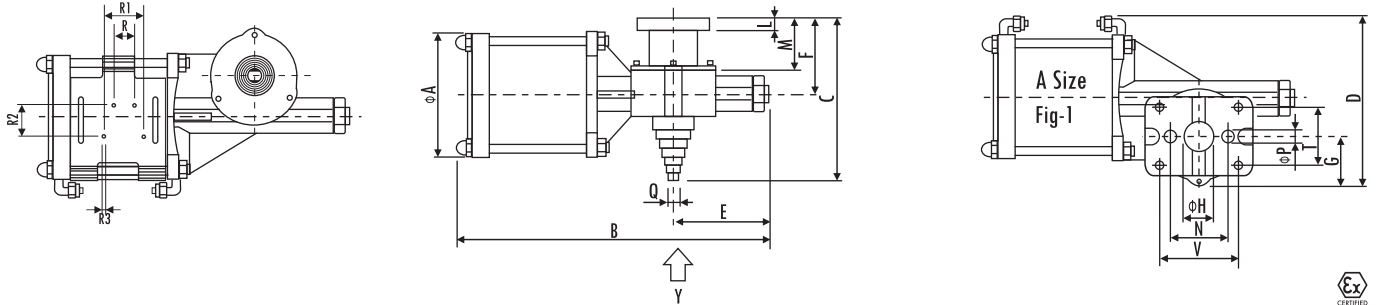
Type	ΦA	B	C	D	E	F	G	ΦH DIN 5482	L	M	N	ΦP	Q	R	R1	R2	R3	ΦThread	ΦHose	Air Consumption per Cycle at 6 bar(Nl)	Operation time in sec.at 6 bar	Kg
CP063	70	265	130	140	85	60	33	22X19	10	47	50	11	12	18	36	26	M4	1/8 "	8x6	2.0(x2)	0.8	2.8
CP101	106	260	130	150	85	60	33	22X19	10	47	50	11	12	18	36	26	M4	1/8 "	8x6	4.4(x2)	0.8	3.3
CP126	125	450	180	215	170	100	65	28x25	16	52	80	13	12	22	60	40	M4	1/4 "	8x6	6.3(x2)	0.5	9.5



Pneumatic Actuator Coupling

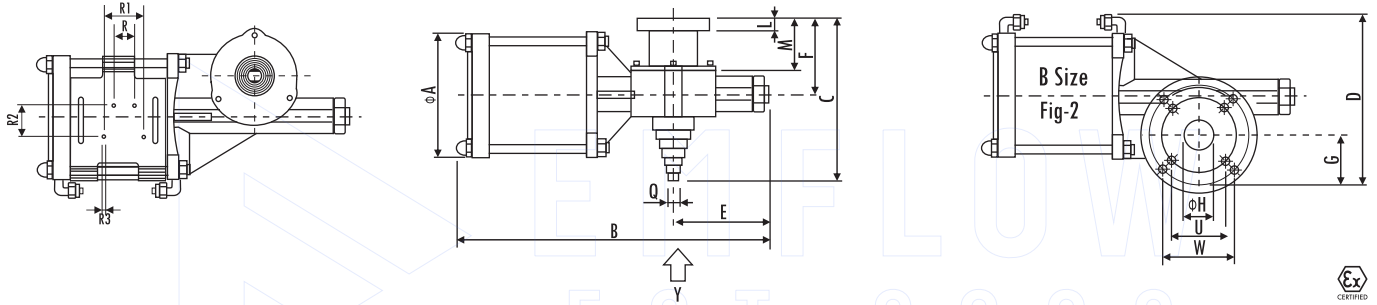
Butterfly-valve size	EBL*F100	EBL*F150	EBL*F200	EBL*F250	EBL*F300	EBL*F350	EBL*F400
Under light load	CP 063	CP 063	CP 101	CP 101	CP 101	CP 126	CP 126
Under heavy load	CP 101	CP 101	CP 101	CP 126	CP 126	CP 126T	CP 126T

CP-A CP-A Series Pneumatic Actuator



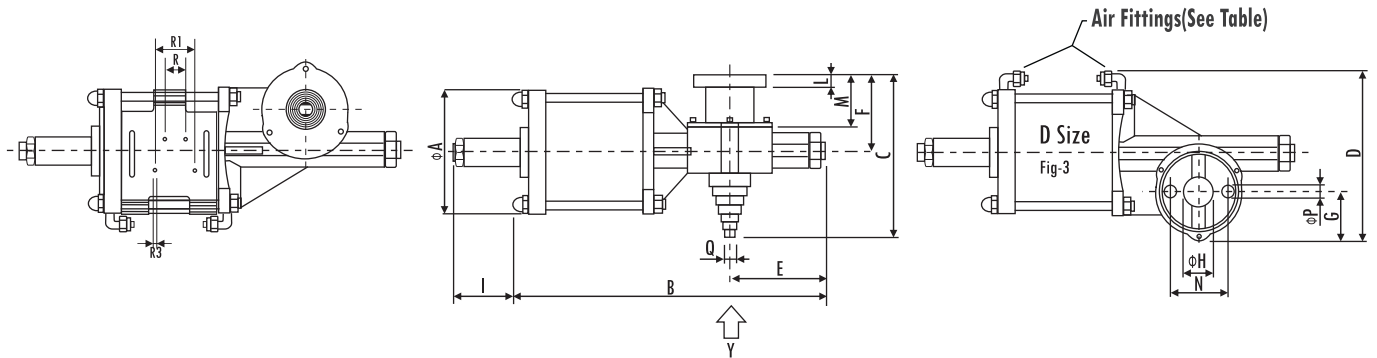
Type	ΦA	B	C	D	E	F	G	ΦH DIN 5482	L	M	N	ΦP	Q	R	R1	R2	R3	T	V	ΦThread	ΦHose	Air Consumption per Cycle at 6 bar(Nl)	Operation time in sec.at 6 bar	Kg
CP063A	70	265	130	140	85	60	33	22X19	10	47	50	11	12	18/20	36	26	M4	53	65	1/8 "	8x6	2.0(x2)	0.8	2.8
CP101A	106	260	130	150	85	60	33	22X19	10	47	50	11	12	18/20	36	26	M4	53	65	1/8 "	8x6	4.4(x2)	0.8	3.3

CP-B CP-B Series Pneumatic Actuator



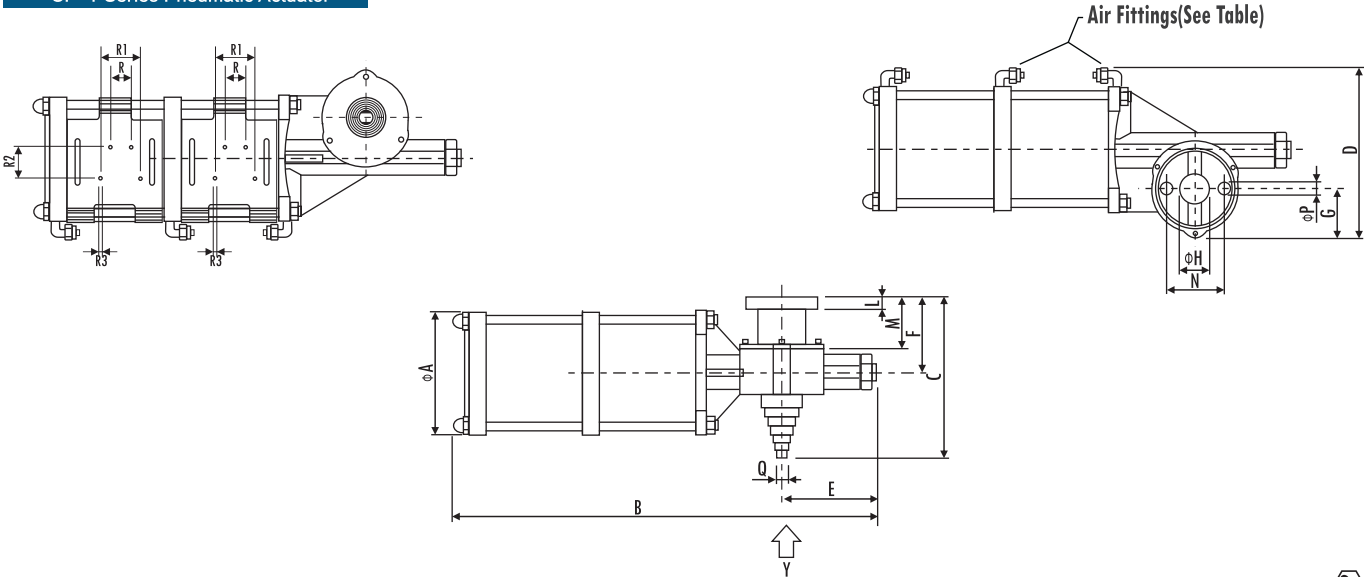
Type	ΦA	B	C	D	E	F	G	ΦH DIN 5482	M	N	ΦP	Q	R	R1	R2	R3	U	W	ΦThread	ΦHose	Air Consumption per Cycle at 6 bar(Nl)	Operation time in sec.at 6 bar	Kg
CP063B	70	265	130	140	85	60	33	14X14	28	50	11	12	18/20	36	26	M4	F05	F07	1/8 "	8x6	2.0(x2)	0.8	2.8
CP101B	106	260	130	150	85	60	33	14X14	28	50	11	12	18/20	36	26	M4	F05	F07	1/8 "	8x6	4.4(x2)	0.8	3.3
CP126B	125	450	180	215	170	100	65	22X22	50	80	13	12	22	60	40	M4	F07	F10	1/4 "	8x6	6.3(x2)	0.5	9.5

CP-D CP-D Series Pneumatic Actuator



Type	ΦA	B	C	D	E	F	G	ΦH DIN 5482	I	L	M	N	ΦP	Q	R	R1	R2	R3	ΦThread	ΦHose	Air Consumption per Cycle at 6 bar(Nl)	Operation time in sec.at 6 bar	Kg
CP063D	70	265	130	140	85	60	33	22X19	120	10	47	50	11	12	18/20	36	26	M4	1/8 "	8x6	2.0(x2)	0.8	2.8
CP101D	106	260	130	150	85	60	33	22X19	120	10	47	50	11	12	18/20	36	26	M4	1/8 "	8x6	4.4(x2)	0.8	3.3
CP126D	125	450	180	215	170	100	65	28X25	170	16	52	80	13	12	22	60	40	M4	1/4 "	8x6	6.3(x2)	0.5	9.5

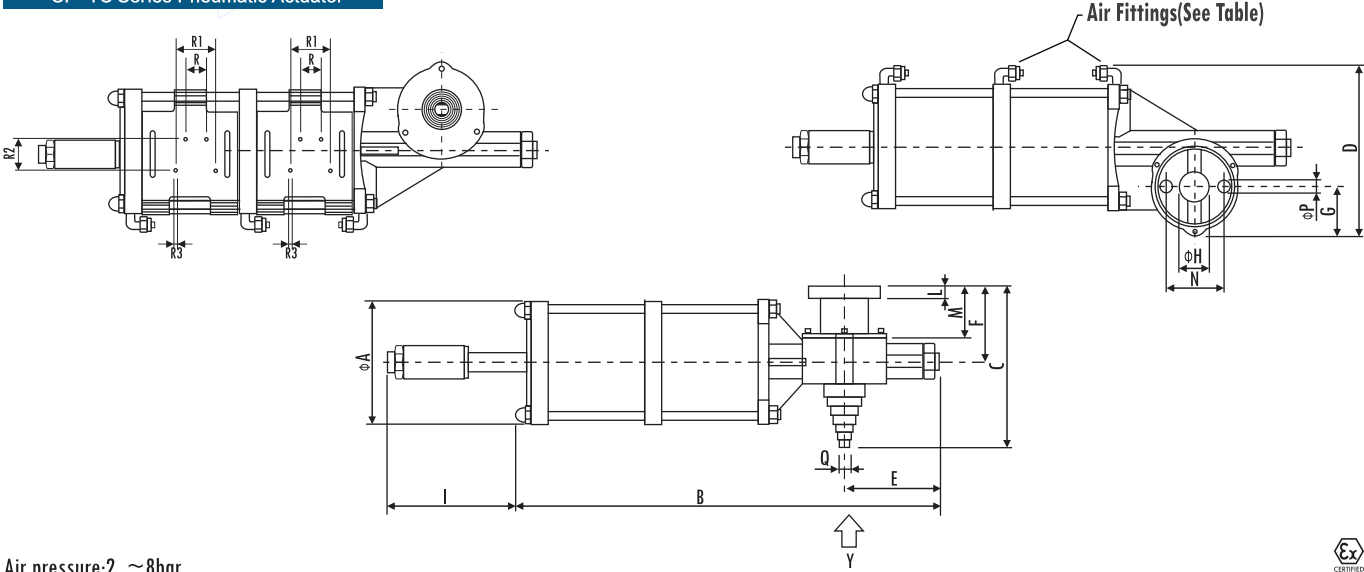
CP-T
CP-T Series Pneumatic Actuator



Air pressure:2 ~8bar

Type	ΦA	B	C	D	E	F	G	ΦH DIN 5482	L	M	N	ΦP	Q	R	R1	R2	R3	ΦThread	ΦHose	Air Consumption per Cycle at 6 bar(NI)	Operation time in sec.at 6 bar	Kg
CP063T	70	380	130	140	85	60	33	22X19	10	47	50	11	12	18/20	36	26	M4	1/8 "	8x6	2.0(x2)	0.8	3.3
CP101T	106	380	130	150	85	60	33	22X19	10	47	50	11	12	18/20	36	26	M4	1/8 "	8x6	4.4(x2)	0.8	5.0
CP126T	125	600	180	215	170	100	65	28X25	16	52	80	13	12	22	60	40	M4	1/4 "	8x6	6.3(x2)	0.5	15

CP-TC
CP-TC Series Pneumatic Actuator



Air pressure:2 ~8bar

Type	ΦA	B	C	D	E	F	G	ΦH DIN 5482	I	L	M	N	ΦP	Q	R	R1	R2	R3	ΦThread	ΦHose	Air Consumption per Cycle at 6 bar(NI)	Operation time in sec.at 6 bar	Kg
CP063TC	70	380	130	140	85	60	33	22X19	150	10	47	50	11	12	18/20	36	26	M4	1/8 "	8x6	2.0(x2)	0.8	3.3
CP101TC	106	380	130	150	85	60	33	22X19	150	10	47	50	11	12	18/20	36	26	M4	1/8 "	8x6	4.4(x2)	0.8	5.0
CP126TC	125	600	180	215	170	100	65	28X25	200	16	52	80	13	12	22	60	40	M4	1/4 "	8x6	6.3(x2)	0.5	15

Dimensions in mm

Mic Series
Switch Box

MIC23 micro signal switch box suitable actuator in type CP

MIC23

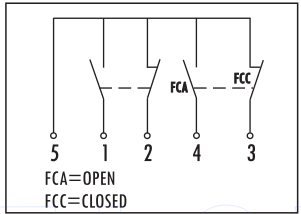
Performance & Technical Features – Benefits

- High strength of PC shell, switch position can be clearly identified
- Protection grade:IP67/NEMA4&4X (standard) IP68 (option)
- Cam Device : Adjustable cam position
- Mechanical switch : 2SPDT
- Contact : 250VAC/16A、 400VAC/10A、
- Single-wire interface : PG9
- Terminal : 5points(0.08-2.5mm²)



Micro-Switch Box
IP67
0-10A 400V
0-16A 250V
For CP

MIC23



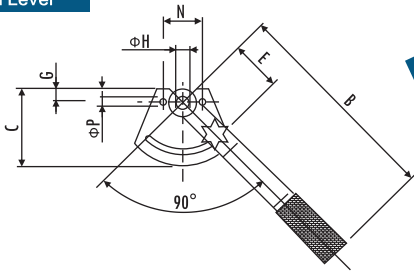
320g

Manual Lever CM Series

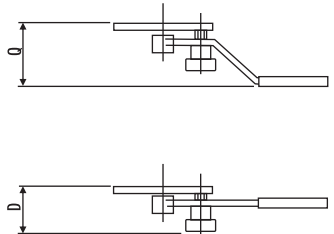
CM handle driver suitable for control of BLF type butterfly valve

CM
CM Series Manual Lever

CM



CM



Type	B	C	D	E	G	H DIN 5482	N	P	Q	Kg
CM4	300	104		72	14	22x19	50	10.5	115	1.3
CM2	300	104	60	72	14	22x19	50	10.5		1.3
CM3B	500	107	60	72	17	28x25	80	10.5		2.0

COUPLING OF MANUAL LEVER

Butterfly-valve size	EBL*F100	EBL*F150	EBL*F200	EBL*F250	EBL*F300	EBL*F350	EBL*F400
Manuallever	CM4	CM4	CM4	CM4	CM4	CM3B	CM3B

Dimensions in mm