

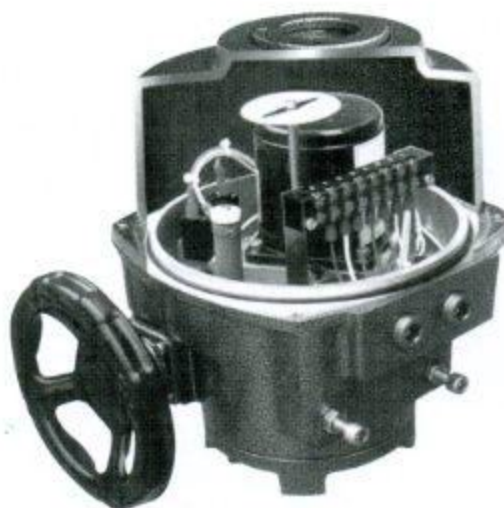
BUTTERFLY MOTOR (GBV) MOTOR

INNOVATION

GBV Butterfly Motor Valves are intended for on-off control application of chemical processes, refinery, oil field, power plant, etc.

Rotary Actuator is standard.

Combined Rotary Actuators are on-off type and control type optional accessories are manual handle, position-transmitter, limit switch, etc.



Butterfly Type Motor Valves

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Motor Butterfly Valve

Specification

Standard Model	GBV Series
Actuator	Motor
Valve Size	1 1/2" ~ 16(40A~400A)
Pressure Rating	JIS 10K, 20K
Connection	Wafer, Flanged, Etc.
Operating Temperature	Max. 80° C, 220° C
Material	Body : AL, GC20, SCS13, 14 Disc : SUS304, SUS316 Seat : NBR, EPDM, VITON

BASIC SYSTEM ACTUATORS

■ Limit switch

The location valve is precisely controlled by CAM attached on drive axis, its simple structure makes setting easy. The set position is permanent and is not affected by over-travel resulting from manual operation.

■ Electric wiring

Electric wiring of single phase, three phase and proportional control, etc is standardized and well arranged.

■ Potentiometer

The location of valve is proportionally controlled thru various signal from controller of PLC or PROCESS COMPUTER, So the transfer of feedback signal is possible.

■ Motor

Reversible Motor installed in GBV Series Actuator not only gives high torque by output but its safety is reinforced with thermostat built inside.

■ Indicator

The location of valve can be accurately found in long distance by the indicator directly connected with the drive axis and the condition of Open/Close.

■ Heater

20W Heater is installed in actuator to protect any electric leakage from the moisture of motor and its various switches, which can be generated from Condensed water by the variation of humidity and temperature.

■ Sealing

Each part and connecting moving part are completely sealed by oring, which prolongs the safety and durability of actuator. (IP65)

■ Self locking

Rolled steel wormgear on aluminum bronze worm wheel self-locks to prevent valve back drive on control signal or power failure.

■ Performance Mechanism

Powerful output torque of high efficiency and low noise is produced from the motor output that gives out thru two shift worm gear.

■ Manual Hand Wheel

When the power is failed, the direct drive handwheel shall be used for manual operation after switching by the spring engaged pull handle.

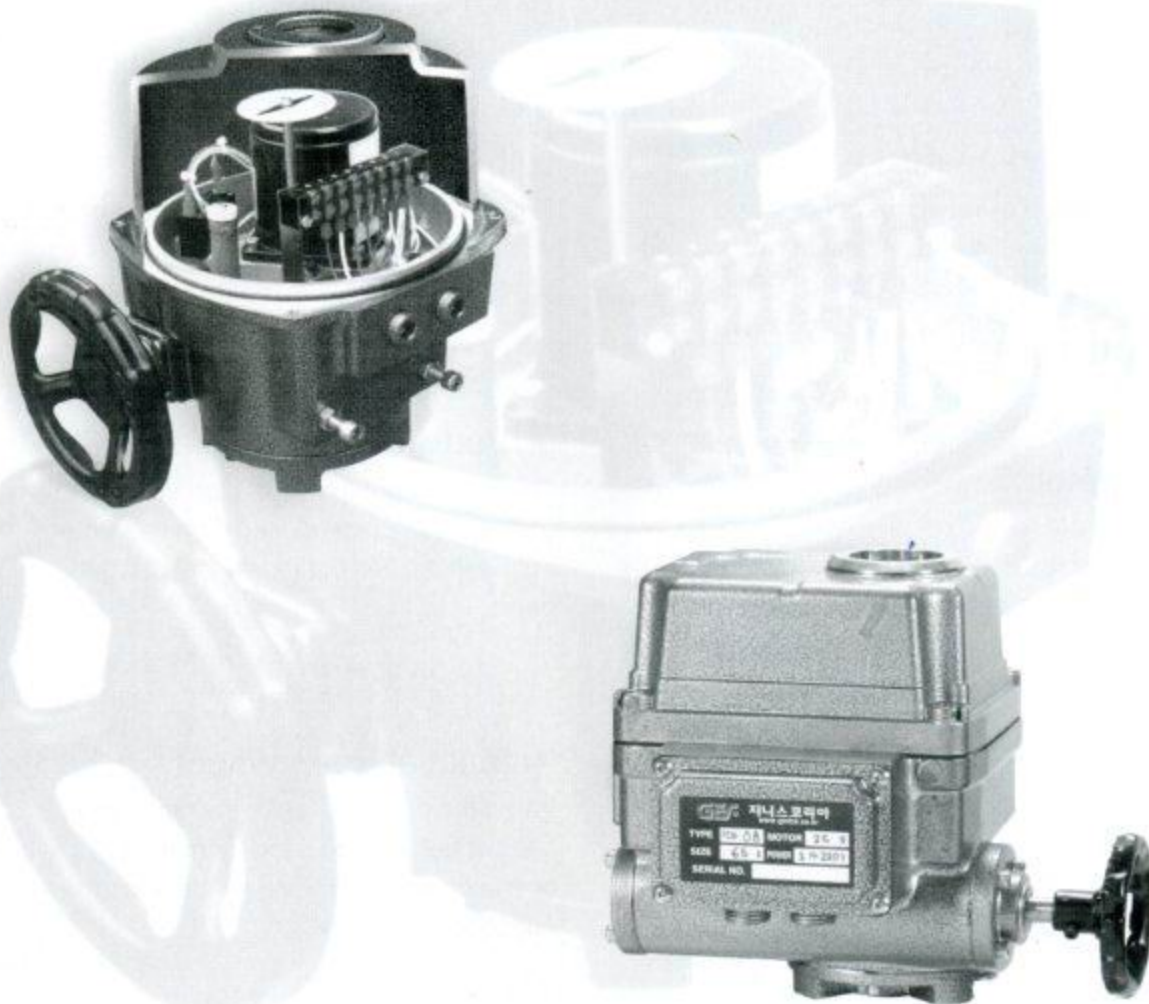
BASIC SYSTEM ACTUATORS

■ Stem adaptor

Main drive shaft and adaptor are simply separated, so that process can be possible in accordance with valve stem, from which various mounting of valve is easy & simple.

■ Feature

These models are engineered operation, either open-close or modulating, of butterfly valves, ball valves, plug valves and dampers for 90° turn applications.



ELECTRIC ACTUATORS



Actuator Performance

Model	Torque	OP. Time sec/90°	Motor output(W)	Current 220v, 1ph(Amp)	Weight
GBV-08	8	25±2	25	0.3	8.5
GBV-10	10	27±2	25	0.3	8.5
GBV-15	15	27±2	25	0.3	8.5
GBV-20	20	27±2	40	0.45	12
GBV-30	30	27±2	40	0.45	12
GBV-45	45	27±2	90	1	13
GBV-60	60	27±2	90	1	13
GBV-100	100	80±5	200	1.6	47
GBV-150	150	80±5	200	1.6	48
GBV-200	200	80±5	200	1.6	54

Standard Specification

Enclosure	Watertight IP65
Ambient Temp	-20℃ to +70℃/1hr
Power Supply(60Hz/50Hz)	110/220VAC, 1Phase 220/380/440VAC, 3Phase
Control power	110/220VAC, 1Phase, 60/50Hz
Limit Switches	2 Open/Close, 250VAC 16A Rating *
Stall Protection	Built-in Thermal Protection Open 150℃±5℃/ Close 97℃±15℃
Travel Angle	90° ±5°
Indicator	Continuous Position Indicator
Manual Override	Hand/Auto Decutching Mechanism
Self Locking	Provided by means of Worm Gearing
Mechanical Stops	External Adjustable Screws
Space Heater	20W(110/220VAC)Anti-Condensation
Conduit Entries	PF 1/2"
Lubrication	Grease NLGI Grade 2(EP Type)
Materials	Steel, Aluminium Alloy, Al Bronze
External Coating	Dry Powder, Epoxy-polyester

Options

Potentiometer(1K ohm), Modulating controls(4-20mA)

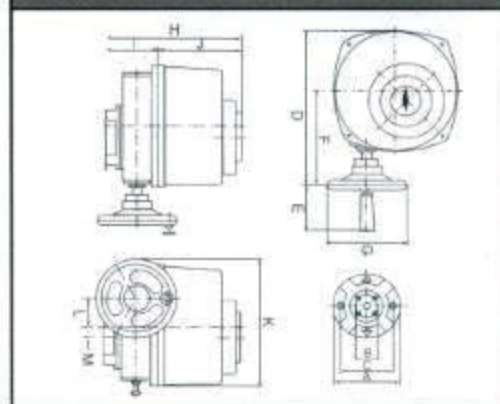
Local controls, Auxiliary switches, Mounting bracket, Valves

Dimensions

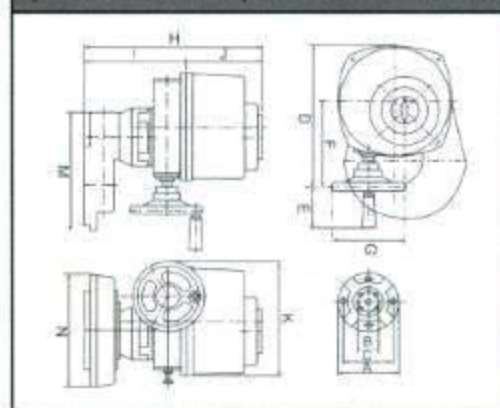
Type	GBV08	GBV10	GBV15	GBV20	GBV30
A	84	115	115	130	130
B	40	36	36	55	55
C	73	105	105	117	117
D	240	255	255	260	260
F	145	160	160	160	160
G	75	125	125	125	125
H	230	220	220	255	255
I	124	120	120	130	130
J	106	100	100	128	128
K	140	205	205	230	230
L		45	45	80	80
M		17	17	14	14

Type	GBV45	GBV60	GBV100	GBV150	GBV200
A	175	175	175	175	175
B	70	70	70	70	70
C	155	155	155	155	155
D	320	320	320	320	320
F	185	185	185	185	185
G	150	150	150	150	150
H	310	310	495	495	495
I	150	150	335	335	335
J	160	160	160	160	160
K	275	275	275	275	275
L	80	80	150	150	150
M	14	14	280	280	280
N			225	225	225

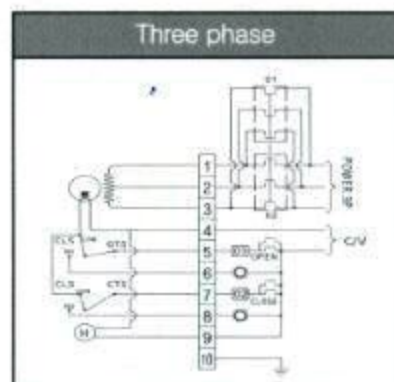
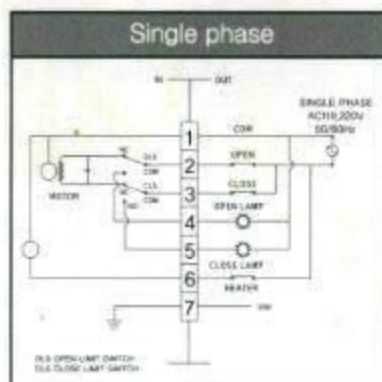
GBV-10 GBV-15 GBV-30 GBV-45 GBV-60



GBV-100 GBV-150 GBV-200



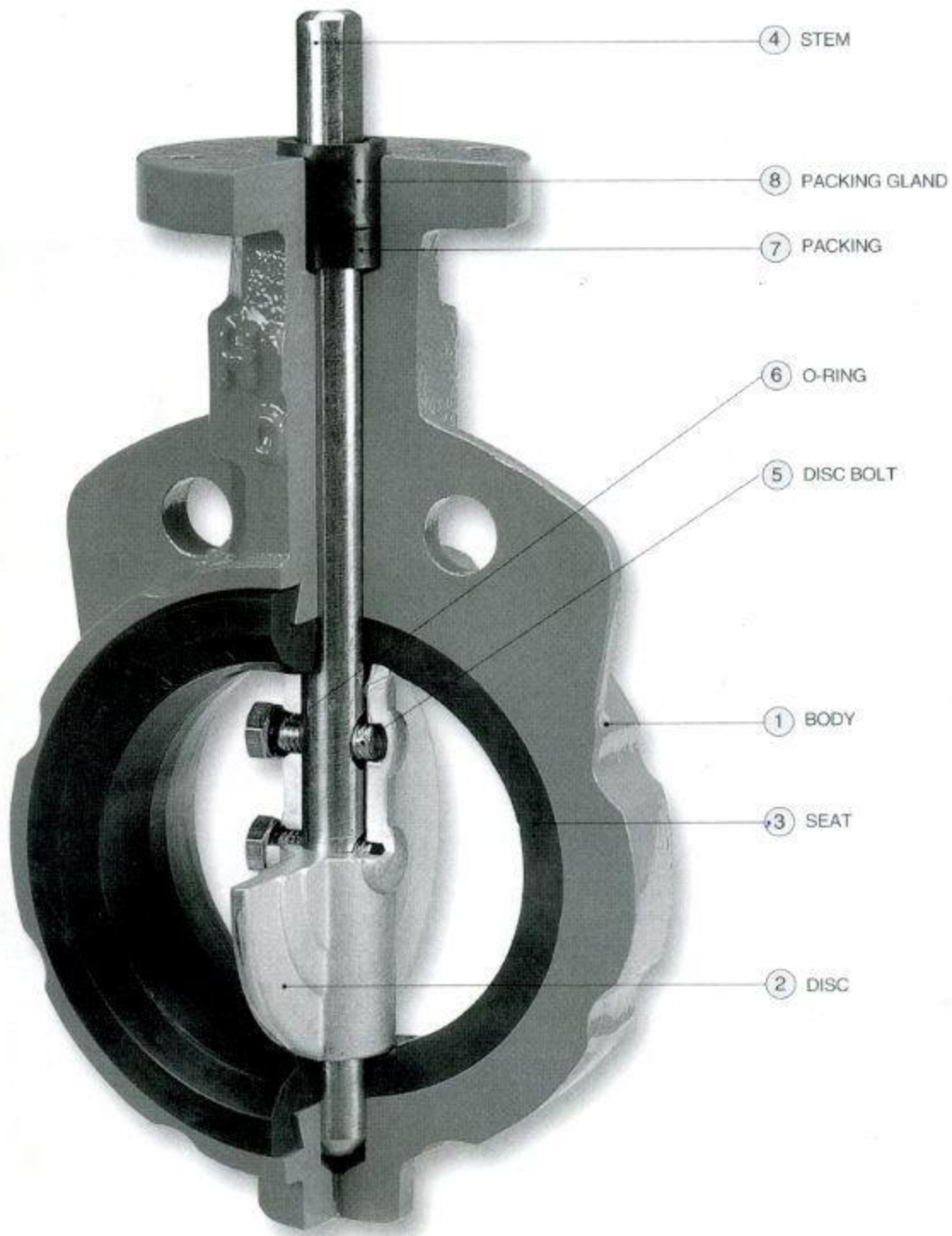
Electric Wiring Diagram

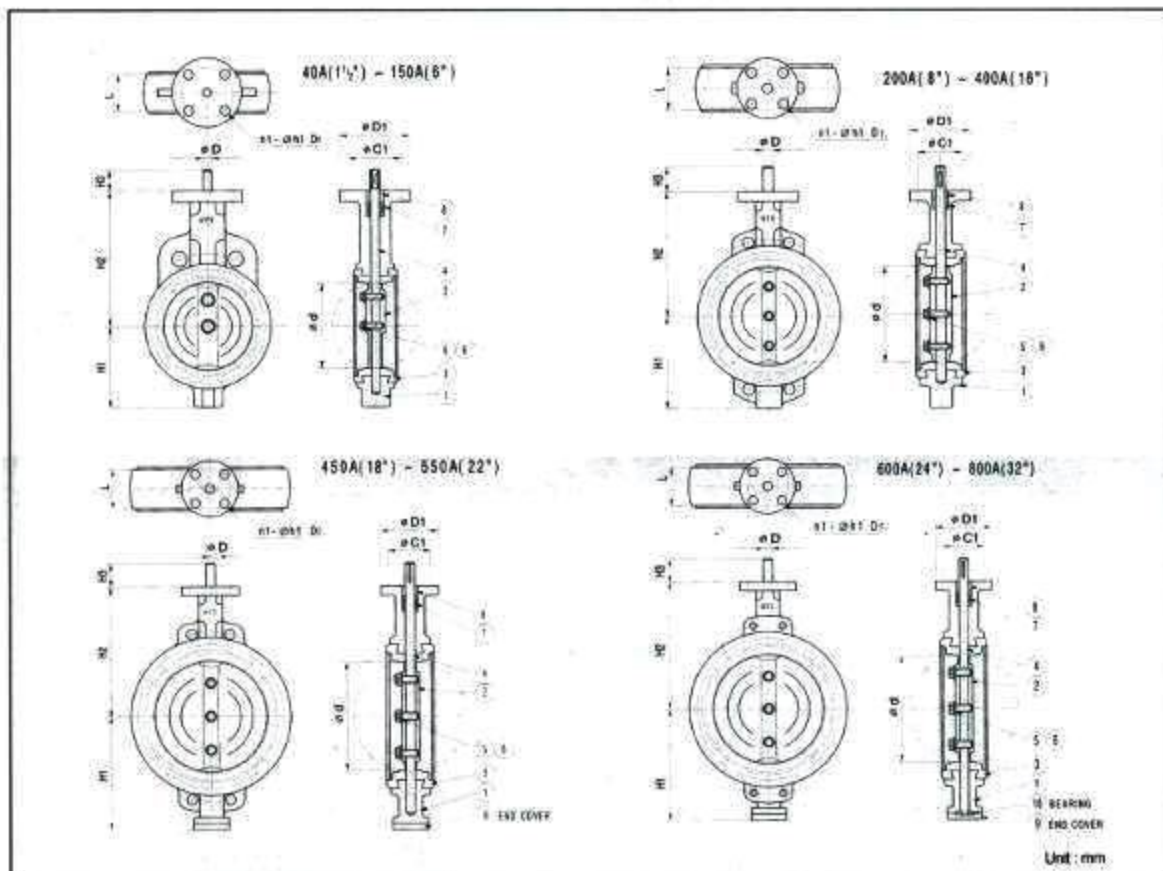


Options

HEATER	POTENTIOMETER

BUTTERFLY VALVE





Unit : mm

Size		Ød	L	ØD	ØC1	ØD1	n1	Øh1	H1	H2	H3	Weight (kg)
mm	inch											
40	1 1/2	42	33	14	70	90	4	10	66	109	35	2.8
50	2	53	48	14	70	90	4	10	70	115	35	3.4
65	2 1/2	67	46	14	70	90	4	10	74	126	35	3.6
80	3	79	46	14	70	90	4	10	80	147	35	4.1
100	4	100	52	15	70	90	4	10	97	169	35	5.6
125	5	129	56	19	70	90	4	10	117	180	35	7.0
150	6	147	56	19	70	90	4	10	127	195	35	8.7
200	8	195	60	22.3	82	100	4	12	170	220	50	13.9
250	10	244	68	28.6	98	120	4	15	202	265	55	25.3
300	12	294	78	28.6	98	120	4	15	238	285	55	32.9
350	14	335	78	30	98	120	4	15	255	325	60	44.6
400	16	387	102	35	98	120	4	15	300	340	60	59.0

If have any questions, please contact :

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