

BGA

Series Valve Actuator

**The NEW BGA series,
developed as the successor unit
to the old BA series.**

The BGA bevel gear actuators are directly mounted to gate and globe valves which receive thrust loads. This results in easy manual opening and closing of the valves. The actuators also may be mounted onto existing valves with the use of an adapter.



FEATURES

- A highly durable body with enclosed construction and filled with high pressure grease.
- The unit consists of ball bearing design with a high efficiency of 90%.
- The stem nut is a two-piece structure, allowing easy detachment and change of parts.
- A line-up including Basic type, with MDPI type, with MDPI and limit switch type, and dual input shaft type.
- The units may be motorized by replacing the handwheel with a motorized actuator or air motor through the use of an adapter.

BGA Series Valve Actuator



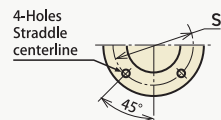
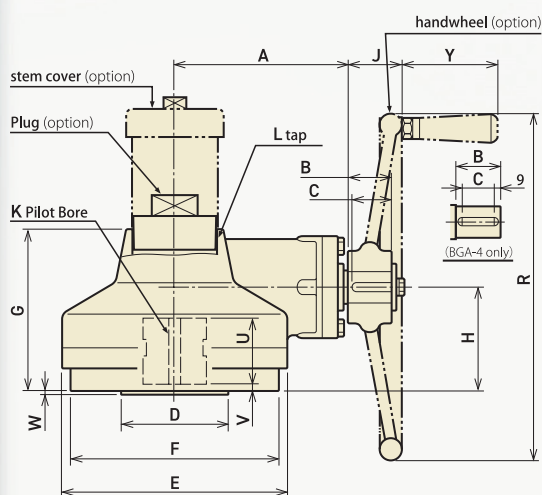
Succeeding the performance, and flange dimensions, of the old BA series, the new BGA series is on sale.

The BGA series is the successor unit of the previous BA series. Therefore, the flange dimensions, gear ratio, max allowable torque, are equal allowing for easy replacement.

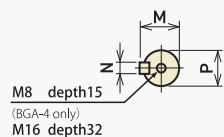
SPECIFICATION

Type	BGA-04	BGA-00	BGA-0	BGA-1	BGA-2	BGA-3	BGA-4
Gear ratio	2:1	2.5:1	3:1	4.11:1	6:1	9:1	10:1
Max. thrust capacity kN	26	62	98	200	340	620	1200
Max. torque capacity N·m	110	340	740	1500	2900	5900	12000
max stem acceptance mm	Stem dia	40	46	55	62	85	115
	Bore dia & Keyway	30	35	45	52	70	95
Mass (approx.) kg	13	19	26	46	86	227	380

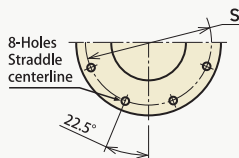
OUTLINE DRAWING



BGA-04, 00, 0 flange dimensions



Input shaft key details



BGA-1, 2, 3, 4 flange dimensions

Dimensions (mm)

	BGA-04	BGA-00	BGA-0	BGA-1	BGA-2	BGA-3	BGA-4
A	147	154	172	204	259	360	422
B	40	40	40	40	40	40	95
C	39	39	39	39	39	39	39
D	70 ^{0.004}	95.2 ^{0.05}	127 ^{0.076}	152.4 ^{0.076}	177.8 ^{0.076}	215.91 ^{0.076}	228.61 ^{0.076}
E	164	200	235	289	390	588	585
F	125	178	210	—	343	406	476
G	118	143	145	172	204	258	293
H	72	92	95	121	115	138	200
K	10	10	15	25	35	35	35
L	G2	G2½	G3	G3½	G5	PF7	—
M	31 ^{0.29}	31 ^{0.29}	31 ^{0.29}	31 ^{0.29}	31 ^{0.29}	31 ^{0.29}	48.5 ^{0.136}
N	8 ^{0.036}	8 ^{0.036}	8 ^{0.036}	8 ^{0.036}	8 ^{0.036}	8 ^{0.036}	12 ^{0.036}
P	28 ^{0.021}	28 ^{0.021}	28 ^{0.021}	28 ^{0.021}	28 ^{0.021}	28 ^{0.021}	45 ^{0.034}
S	102±0.2	139.7±0.2	165.1±0.2	254±0.2	298.5±0.2	355.6±0.2	406.4
T	M10×1.5depth16	M16×2depth26	M20×2.5depth26	M16×2depth34	M20×2.5depth31	M24×3depth45	M30×3.5depth50
U	52	58	73	85	110	142	170
V	-3	-3	0	0	9	13	27.5
W	3	3	3	3	3	3	9

Handwheel dimensions (mm)

Type & Size	BGA-04	BGA-04 ~BGA-1	BGA-04 ~BGA-3	BGA-00 ~BGA-3	BGA-1 ~BGA-3	BGA-4	
ΦR	270	308	460	610	760	610	760
J	45	48	55	62	83	*137	*148
Y	99	99	99	99	99	95	95
Mass kg	4	5	8	17	24	14	18

*: Includes spacer

The dimensions and the shape of the actuator are subject to change for the improvement of the product without notice.

NIPPON GEAR CO., LTD.

<http://www.nippon-gear.jp/english/>

Headquarters 2F, Keihanshin Toranomon building, 1-7-14, Nishi-Shinbashi, Minato-ku, Tokyo, 105-0003, Japan
TEL : +81-3-6363-3165 FAX : +81-3-6363-3168

Factory 7 Kiriharacho, Fujisawa-shi, Kanagawa 252-0811, Japan

■ Please see our homepage for details of our overseas distributors.