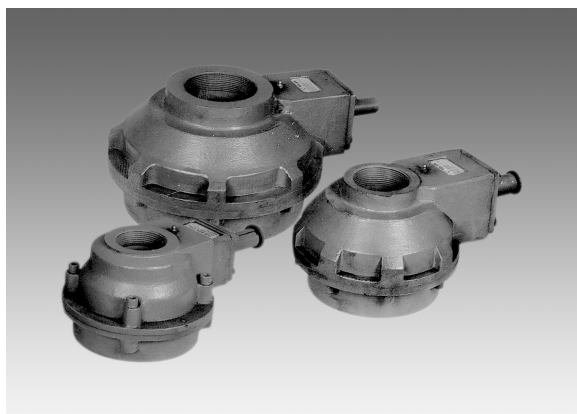


VALVE ACTUATOR

BG-Metric

BG Series of bevel gear operators



- Total turning manual operating device suitable for jointing with gate valve, stop valve ect.
 - Permitted output torque range is 255~16230N.m.
 - Jointing with valve by guide screw and nut, flange jointing is designed according to standard ISO 5211/MSS SP-01.
- The casting parts as device body and cover
- are made of ductile iron of high efficiency. two ends of worm are equipped with bearings for which are good mechanical efficiency.
- Horizontal (H type) and Vertically (V type).

BG Technical parameters of one-step valve actuators-H type

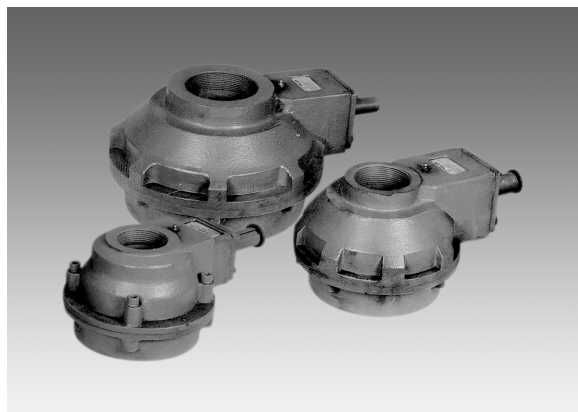
Model	BG05	BG08	BG10	BG20	BG30	BG40	BG50
Geat ratio	2.9:1	3:1	3:1	4:1	6:1	6:1	8:1
Maximum output torque Nm	255	354	845	1017	1695	4068	6780
Maximum pushing force Kn	75	113	178	178	356	445	668
Maximum stem diameter Mm	26	34	456	51	60	79	102
Weight Kg	9	10.5	21	23	40	74	114
Efficiency	0.9	0.9	0.90	0.90	0.90	0.90	0.90

BG Technical parameters of multi-step valve actuators-H type

Model	BG30B	BG40B	BG50B	BG60	BG70	BG100
Geat ratio	30.0:1	30.0:1	40.0:1	43.0:1/81.8:1	44.2:1/84.1:1	44.2:1/84.1:1
Maximum output torque Nm	1695	4068	6780	10850	10850	16230
Maximum pushing force Kn	356	445	668	890	1335	1335
Maximum stem diameter Mm	60	79	102	114	114	140
Weight Kg	57	92	132	190	240	455
Efficiency	0.80	0.80	0.80	0.70	0.70	0.70

VALVE ACTUATOR *BGA-Inches*

BGA Series of bevel gear operators



- Total turning manual operating device suitable for jointing with gate valve, stop valve ect.
- Permitted output torque range is 188~12000IN.LB.
- Jointing with valve by guide screw and nut, flange jointing is designed according to standard ISO 5211/MSS SP-01.
The casting parts as device body and cover
- are made of ductile iron of high efficiency. two ends of worm are equipped with bearings for which are good mechanical efficiency.
Horizontal (H type) and Vertically (V type).
-

BG Technical parameters of one-step valve actuators-H type

Model	BG05	BG08	BG10	BG20	BG30	BG40	BG50
Geat ratio	2.9:1	3:1	3:1	4:1	6:1	6:1	8:1
Maximum output torque ft.lb	188	261	623	750	1250	3000	5000
Maximum pushing force lb	16872	25420	40000	40000	80000	100000	150000
Maximum stem diameter in	1.02	1.34	1.81	2.00	2.38	3.13	4.00
Weight lb	20	23	46	50	88	163	250
Efficiency	0.9	0.9	0.90	0.90	0.90	0.90	0.90

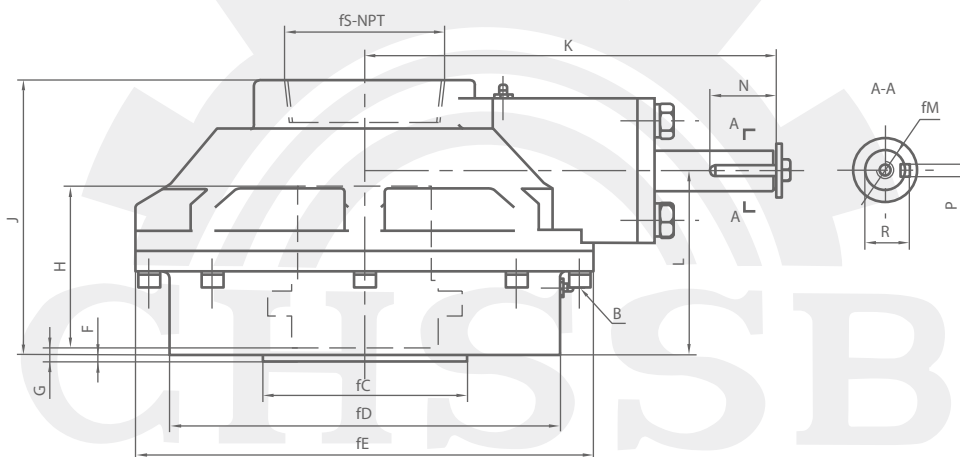
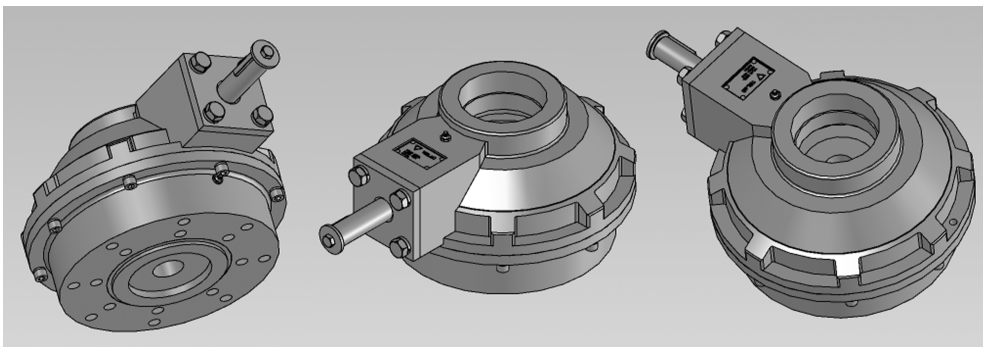
BG Technical parameters of multi-step valve actuators-H type

Model	BG30B	BG40B	BG50B	BG60	BG70	BG100
Geat ratio	30.0:1	30.0:1	40.0:1	43.0:1/81.8:1	44.2:1/84.1:1	44.2:1/84.1:1
Maximum output torque ft.lb	1250	3000	5000	8000	8000	12000
Maximum pushing force lb	80000	100000	150000	200000	300000	30000
Maximum stem diameter in	2.38	3.13	4.00	4.50	4.50	5.50
Weight lb	125	203	290	419	529	1000
Efficiency	0.80	0.80	0.80	0.70	0.70	0.70

VALVE ACTUATOR

BG-Metric

BG one-step valve actuators-H type

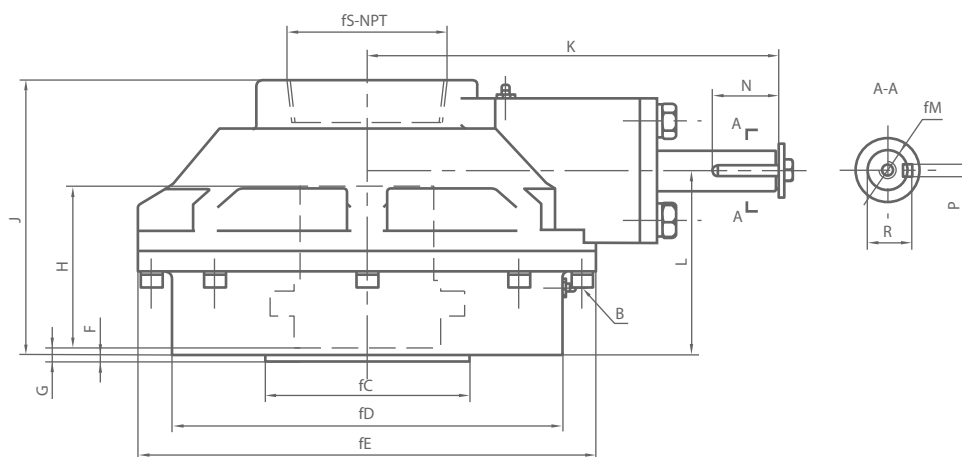
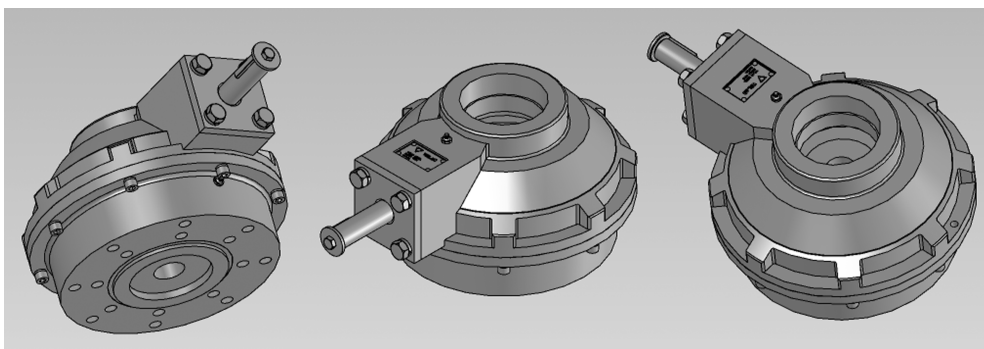


BG Dimension table of BG valve actuators-H type

UNIT	ISO	B	C	D	E	F	G	H	J	K	L	M	N	P	R	S
BG05	F10	4-M10x15MM 12 BCD	70	135	140	3	3	44	98	150	50	21	25	6	23.5	1.50
BG08	F12	4-M12x15MM 12 BCD	85	160	170	3	3	50	113	180	60	26	35	8	29	2
BG10	F14	4-M16x28MM 140 BCD	95.25	176	200	4	4	60	122	212	79	30	49	8	34	2.50
BG20	F14	4-M16x35MM 140 BCD	95.25	176	210	4	8	76	154	213	102	30	49	8	34	2.50
BG30	F16	4-M20x45MM 165 BCD	127	203	250	5	12	102	179	249	121	30	49	8	34	3.00
BG40	F25	8-M16x35MM 254 BCD	152	290	340	5	12	121	205	279	138	30	49	8	34	4.00
BC50	F30	8-M20x45MM 298 BCD	178	346	400	5	6	152	222	340	160	30	49	8	34	4.00

VALVE ACTUATOR *BGA-Inches*

BGA one-step valve actuators-H type



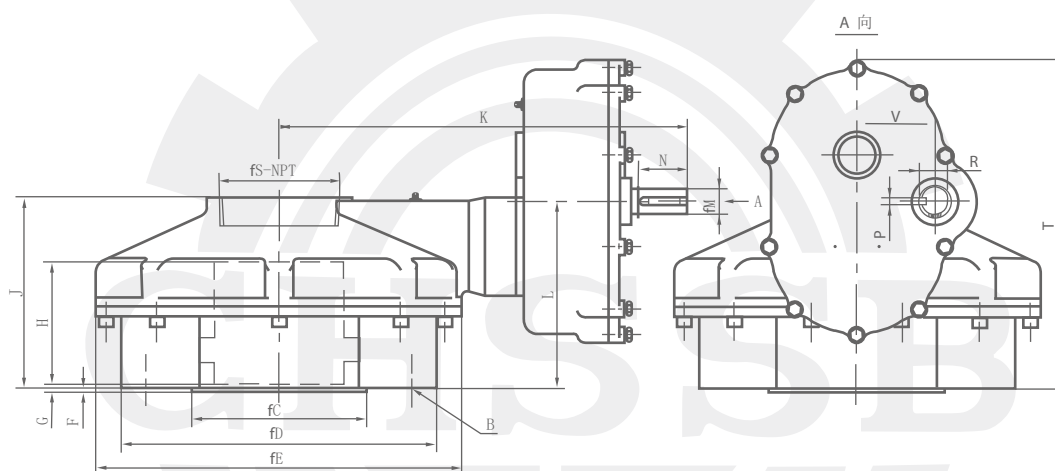
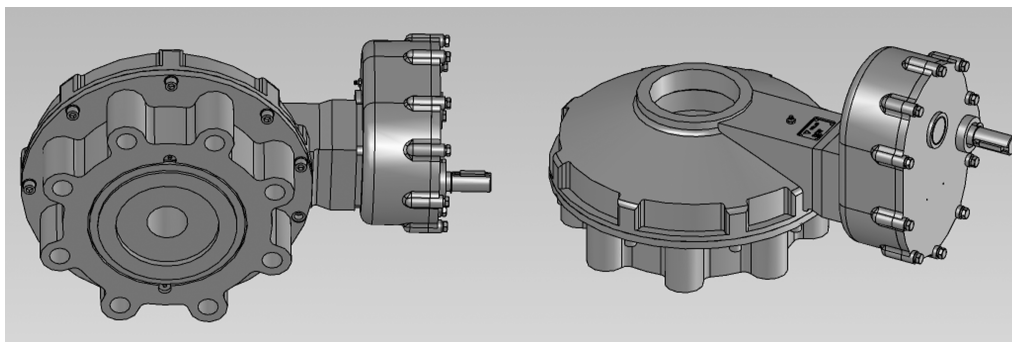
BGA Dimension table of BGA valve actuators-H type

UNIT	ISO	B	C	D	E	F	G	H	J	K	L	M	N	P	R	S
BGA05	FA10	4-3/8-16UNCx0.6 4.00 BCD	2.76	5.31	5.51	0.12	0.12	1.73	3.86	5.91	1.97	0.83	0.98	0.24	0.093	0.06
BGA08	FA12	4-1/2-13UNCx1.1 4.95 BCD	3.35	6.30	6.69	0.12	0.12	1.97	4.45	7.09	2.36	1.02	1.38	0.31	1.14	0.08
BGA10	FA14	4-5/8-11uncX1.1 5.50 BCD	3.75	6.93	7.87	0.16	0.16	2.36	4.80	8.35	3.11	1.18	1.93	0.31	1.34	0.1
BGA20	FA14	4-5/8-11uncX1.38 5.50 BCD	3.75	6.93	8.27	0.16	0.31	2.99	6.06	8.39	4.02	1.18	1.93	0.31	1.34	0.1
BGA30	FA16	4-3/4-10uncX1.77 6.50 BCD	5	7.99	9.84	0.20	0.47	4.02	7.05	9.8	4.76	1.18	1.93	0.31	1.34	0.12
BGA40	FA25	4-5/8-11uncX1.38 10.00 BCD	5.98	11.42	13.39	0.20	0.47	4.76	8.07	10.97	5.43	1.18	1.93	0.31	1.34	0.16
BCA50	FA30	4-3/4-10uncX1.77 11.75 BCD	7.01	13.62	15.75	0.20	0.24	5.98	8.74	13.39	6.30	1.18	1.93	0.31	1.34	0.16

VALVE ACTUATOR

BG-Metric

BG multi-step valve actuators-H type

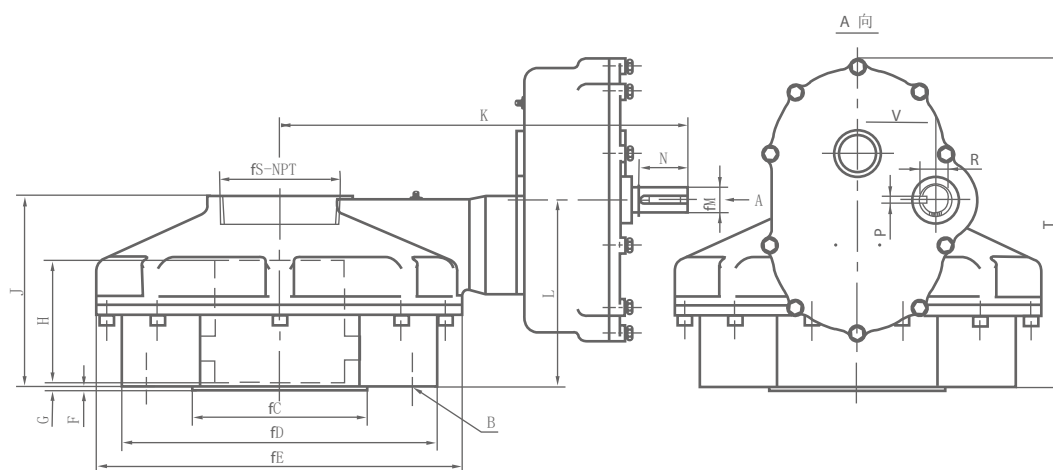
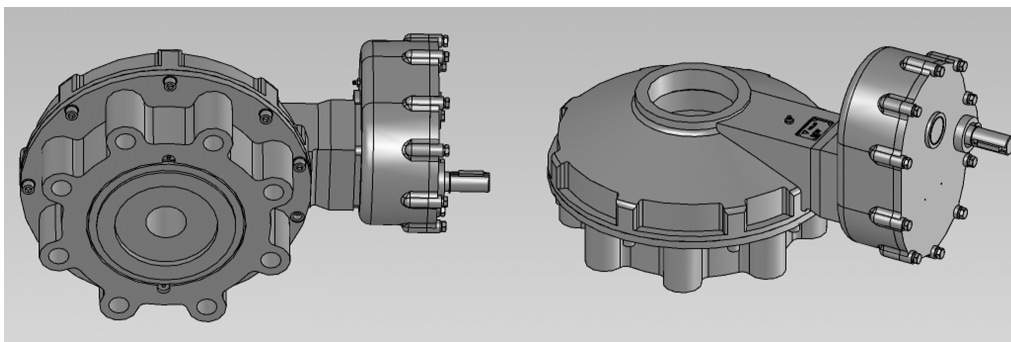


BG Dimension tabke of BG multi-step valve actuators-H type

UNIT	ISO	B	C	D	E	F	G	H	J	K	L	M	N	P	R	S	T	V
BG30B	F16	4-M20x45MM 165 BCD	127	203	250	5	12	102	179	341	242	30	49	8	34	3.00	283	N/A
BG40B	F25	8-M16x35MM 254 BCD	152	290	340	5	12	121	205	346	260	30	49	8	34	4.00	284	N/A
BG50B	F30	8-M20x45MM 298 BCD	178	346	400	5	6	152	222	406	242	30	49	8	34	4.00	283	N/A
BG60	F35	8-M30x45MM 356 BCD	216	416	451	5	10	151	235	503	231	30	60	8	34	5.00	405	95
BG70	—	8-M36x54MM 356 BCD	216	432	451	5	—	238	325	503	320	30	60	8	34	5.00	494	95
BG100	F48	12-M36x54MM 483BCD	370	559	—	9.6	7.6	203	471	487	451	30	60	8	34	6.00	626	95

VALVE ACTUATOR *BGA-Inches*

BGA multi-step valve actuators-H type



BGA Dimension table of BGA multi-step valve actuators-H type

UNIT	ISO	B	C	D	E	F	G	H	J	K	L	M	N	P	R	S	T	V
BGA30B	F16	4-3/4-10UNCx1.75 6.50 BCD	5	7.99	9.84	0.20	0.47	4.02	7.05	13.43	9.53	1.18	1.93	0.31	1.34	0.12	11.14	N/A
BGA40B	F25	8-5/8-11UNCx1.38 10.00 BCD	5.98	11.42	13.39	0.20	0.47	4.76	8.07	13.62	10.24	1.18	1.93	0.31	1.34	0.16	11.18	N/A
BGA50B	F30	8-3/4-10UNCx1.75 11.75 BCD	7.01	13.62	15.75	0.20	0.24	5.98	8.74	15.98	9.53	1.18	1.93	0.31	1.34	0.16	11.14	N/A
BGA60	F35	8-1 1/4-7UNCx2.75 14.00 BCD	8.50	16.38	17.76	0.20	0.39	5.94	9.25	19.80	9.09	1.18	2.36	0.31	1.34	0.20	15.94	3.74
BGA70	—	8-1 1/2-8UNCx3.00 14.00 BCD	8.50	17.01	17.76	0.20	—	9.37	12.80	19.80	12.60	1.18	2.36	0.31	1.34	0.20	19.45	3.74
BGA100	F48	12-1 1/2-8UNCx2.63 19.00 BCD	14.57	22.01	—	0.38	0.30	7.99	18.54	19.17	17.76	1.18	2.36	0.31	1.34	0.24	24.65	3.74